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MODULE 1 BASIC CONCEPTS AND NATURE OF DEVELOPMENTAL PSYCHOLOGY

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| Unit 2 | Basic Principles of Growth and Development in Human Behaviour |
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UNIT 1 DEVELOPMENT PSYCHOLOGY AS A BRANCH OF PSYCHOLOGY

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1.0 INTRODUCTION

Developmental psychology is a branch of psychology which deals with studying developmental changes of human and animal behaviour. The unit examines the basic concepts and nature of developmental psychology. In addition the unit x-rays scientific methods in the study of developmental psychology.

2.0 OBJECTIVES

At the end of this unit, you should be able to:

- define the concept of developmental psychology
- identify the nature of development
- distinguish between “growth and development”
- describe the roles of maturation and learning in development
- describe at least two scientific methods in developmental psychology.

3.0 MAIN CONTENT

3.1 Definition and Description of Developmental Psychology

Psychology is the science of human and animal behaviour. It is a science that seeks to understand and predict human and animal behaviour. The application of the knowledge to practical problems is an art. Thus psychology is both a science and an art.

The field of human development is regarded as developmental psychology. The branches of developmental psychology are child development or child psychology, adolescent psychology and adulthood psychology. Child psychology focused on the developmental changes of children from conception to early adolescent. Child psychology is the centre of developmental psychology since behaviour develops rapidly in the childhood state. Adolescent psychology and adulthood psychology deal with developmental changes, characteristics and problems that occur especially in adolescence and adulthood periods.

Developmental psychology therefore is a branch of psychology that studies developmental changes covering the life span from conception to death. All the segments of life span or developmental pattern of childhood, adolescent hood and adulthood or old age cover different periods or stages that occur during the entire life span. Scholars and authorities like Hurlock (1978) defined developmental psychology as the ontogenetic study of the development of organism from conception through childhood, adolescent, adult and senescence till death. Apart from studying chronological and mental ages of human beings, it regulates the structural, functional and behavioural changes that occur in humans before maturity.

Recently developmental psychologists identified six major objectives according to Hurlock. These objectives are to find out:

- i) What the common and characteristic age changes in appearance, behaviour, interests, and goals from one development period to another.
- ii) When these changes occur.
- iii) What causes the changes
- iv) How they behaviour;
- v) Whether they can or cannot be predicted; and
- vi) Whether they are individual or universal”

The goal of developmental psychology is to identify how the individual develops cognitively and affectively in addition to motor development from pre-natal stage to adult stage or old age. Developmental

psychology emphasizes the factors affecting developmental changes and influencing changes, and the orderliness and sequential nature of human development. Thus developmental psychology is a special branch of psychology and mental processes which involves growth and developmental changes in terms of differentiation, the maturation, and learning, integration of biological, cognitive and affective processes (Akinboye et al 1982). It also includes the study of processes that contribute to foundations of life in terms of fertilisation, zygote formation, embryonic development leading to the development of the neonate, the child, adolescent, adult and senescence (old age).

In developmental psychology, two concepts are used namely: “growth and development”. Some developmental psychologists use growth and development interchangeably but, are they the same? In this respect they are different although go hand in hand or inseparably. Both refer to changes and the processes are interrelated and inter-dependent on each other. In addition, other basic concepts in developmental psychology are maturation and learning. Basically, growth refers to quantitative changes that are increase in bodily dimensions such as height, weight and size. For instance, as a result of growth, the size and structure of internal organs and the brain increase. The child grows mentally as well as physically. This also implies that the child has the tendency of learning, remembering and reasoning as a result of growth of the brain.

By contrast, development refers to those qualitative changes which along with growth i.e. from maturation and learning. Hurlock (1972), Zanden (1978) and Baller and Charles (1968) defined development as a progressive sequence of orderly, coherent changes. Progressive according to Hurlock signifies that the changes are directional leading forward rather backward. Orderly and coherent suggest that there is a definite relationship between a given stage and the stages which precede or follow it. The progressive series of changes occur as a result of maturation and experience. The developmental changes also occur at each stage of human growth and development. Development leads toward the goal of maturity. Maturity therefore marks the end of growth and development. The nature of development generally implies a dynamic interaction between the organism and its environmental forces. It involves increase in size, differentiation and complex form of organization such as personality formation. Development is therefore the quantitative and qualitative changes of an individual child.

3.2 Human Developmental Changes

The developmental changes in human beings are categorized into changes in size, proportion and disappearance of old features. The human being is never static rather he is undergoing constant changes.

At every chronological age some changes manifest at the beginning while others are at their peak and some are declining. These changes occur physically, emotionally, mentally and disappearance of old features to be replaced by new ones (i.e. baby teeth, baby feet etc).

The process of development has been explained from different perspectives and some of them are development as maturation and learning or development as the synthesis of maturation and learning. In this perspective, Piaget identified four basic elements in development which are as follows: maturation; experience, social transmitted development such as learning through language, schooling or training by parents; and equilibration. (i.e. when an individual adapts easily to environmental demands).

Development as maturation is governed by genetical and environmental factors. Basically development comes from maturation. Maturation provides the raw material for learning and orderly behaviour: Development as learning signifies that development is a collection of learning experiences which the individual acquires in the process of interaction with his environment. Learning is a key in human behaviour. In this regard, learning can be defined as any relatively permanent change in behaviour which occurs as a result of practice or experience. (Morgan, et.al., 1979). The changes due to growth or maturation are not learning. Additionally, development as synthesis indicates that development is the essential process and each element of learning occurs as a function of wholist development rather than being an element which explain development. The interrelationship which exists between maturation and learning generates development which leads to individual differences and variation in personality, attitudes, interest and behaviour patterns.

SELF ASSESSMENT EXERCISE 1

1. Briefly explain the role of maturation and learning in development
2. Identify and describe tutor marked assignment research methods in developmental psychology. Why is the study of human growth and development of importance for the teacher?

3.3 Developmental Tasks

Other aspects of development changes are the social expectations for each stage of development which Havighurst labeled developmental task. Development is critical and plays a significant role in maturation and learning. It follows a definite and predicted pattern, as a result of change in behaviour which leads to individual differences. Each stage

of development has its hazards and is affected by cultural belief and changes.

According to Havighurst, a developmental task is a “task which arises as or about a certain period in the life of the individual, successful achievement of which leads to happiness and to success with later tasks, while failure leads to unhappiness and difficulty with later tasks”

The above definition indicates that the individuals are meant to know the societal expectations at given ages. Parents and teachers are expected to guide the young children through teaching to acquire different skills by the knowledge of what the society expects, the children to master the skills in order to adjust successfully in life.

The developmental tasks predict the failure for an individual to master the tasks as a result of aids and handicaps to mastery.

SELF ASSESSMENT EXERCISE 2

- i) Define developmental psychology
- ii) State two objectives of developmental psychology
- iii) Explain what is meant by development?
- iv) Distinguish between “growth and development” in organism.

You may include the following answers

- i) Developmental Psychology is a branch of science of behaviour which studies the development of organism from conception through childhood, adolescent, adult and senescence (old age).
- ii) The two objectives of are to identify the characteristic chronological age changes from one development period to another; and to find out when these development changes occur and what causes them.
- iii) Development simply means the orderly and sequential changes in an organism from conception to death
- iv) Growth refers to quantitative changes (i.e height, weight, size) while development refers to those qualitative changes which go along with growth (i.e. from maturation and learning).

4.0 CONCLUSION

In this unit you have learnt the concept and objectives of developmental psychology. You also have learned development changes in human beings emphasizing on the roles of maturation and learning; and developmental tasks. You have learnt how the field of developmental psychology benefits from scientific methods.

You have seen how psychologists' especially developmental psychologists see the concept of growth and development in terms of quantitative and qualitative changes in human and animal organisms.

5.0 SUMMARY

You have learnt in this unit that:-

- i) Developmental psychology is a branch of psychology that studied the developmental stages of an individual behaviour from conception till death.
- ii) The concept of growth and development indicates that growth refers to quantitative changes (height, weight, size) while development refers to these qualitative changes which occur as a result of maturation and learning.
- iii) Social expectations are expressed in terms of developmental tasks which is essential for the mastery of persons and social adjustment.
- iv) The research methods employed in the study of human development are observation, survey, case study and experimental methods.

6.0 TUTOR-MARKED ASSIGNMENT

- 1.a. Distinguish between growth and development with appropriate examples.
- 2 Describe the roles of maturation and learning to human development.
- 3 Why is the study of the human growth and development of important to teacher-interns or teacher trainees.

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UNIT 2 BASIC PRINCIPLES OF GROWTH AND DEVELOPMENT IN HUMAN BEHAVIOUR

CONTENTS

- 1.0 Introduction
- 2.0 Objectives
- 3.0 Main Content
 - 3.1 Basic Principles of Development
- 4.0 Conclusion
- 5.0 Summary
- 6.0 Tutor-Marked Assignment
- 7.0 References/Further Reading

1.0 INTRODUCTION

In unit 1, we have defined both growth and development, and some aspects of developmental changes. In this unit therefore the emphasis will be on the principles of growth and development, factors influencing growth and development and sex determination.

2.0 OBJECTIVES

At the end of this unit, you should be able to:

- describe two principles of development
- identify and explain two factors influencing growth and development
- describe sex determinants in growth and development.

3.0 MAIN CONTENT

3.1 Basic Principles of Development

Human life is a process of continual development. It finds expression in physical change, intellectual change, personality change, and social change across the life span and to live is to change (Reddy, 1978). Early development of a child involves differentiation, increase in size and complex forms of organization. There are structural, physiological and behaviour patterns in all the stages of development. The human has a pattern of development. These patterns form the basic principles of development. The patterns are cephalocaudal (cephalo = head; caudal = tail) and proximodistal (proximo = central or middle; distal = periphery terminator).

- i) The process of development follows an orderly sequence or pattern in all individuals, for example the orderly patterns of physical, and mental development of the child follow the law of directional sequence of development. Psychologists maintained that the law of developmental direction and predictable pattern are the “cephalocaudal law” and the proximodistal law”. The cephalocaudal law means that development proceeds from head to foot (tail) while the proximodistal law implies that development follow from trunk to extremities” the outer parts of the body
- ii) Development proceeds from general to specific responses as differentiation and integration. For instance language development of the child begins from the birth and cry as a means of response. The differentiation response starts as the child acquires vocabulary of many words and latter develops communication skills.
- iii) Development is predicable with changes namely growth, maturation and learning. Development is the sum total of all changes that occur in an organism. It continues the effect of growth and learning. Development therefore is influenced by genetic or heredity and environmental forces. Growth is quantitative and development is wider in scope. It is quantitative and qualitative. Maturation is the stronger motivation on the part of the learner and sets the limit of developmental changes no matter the type of learning methods employed. The learner cannot learn unless he is ready. Learning in this regard is the relatively permanent change in behaviour as a result of reinforced practice or experience. For an individual to grow and develop fully, there must be four basic changes namely, growth, maturation, learning and development.
- iv) There are individual differences and variations in development. These imply that children develop at different rates. Every child is biologically, physiologically and maturation ally different from every other. The differences occur as child proceeds to adolescence and eventually to adulthood.
- v) Growth and development are continuous. The child is continuously developing. Sometimes the growth and development are slow, and sometimes they are rapid i.e. “growth Spurt’s during infancy and adolescence. But they are always occurring.

- vi) Development behaviour is controlled by needs. The developing child needs nutritional materials in order to enhance his cognitive, physiological, emotional and social needs. For instance the child requires love and affection, belongingness and acceptance especially from his peer group in order to satisfy his emotional and social needs. If the developing child is deficient, the development requirements may not be fulfilled.
- vii) Development proceeds by different developmental stages. Human life proceeds by stages. Each stage is distinguished by a dominant feature. It is characterized by a specific kind of development which is more prominent than the other. For example the five major developmental stages in childhood begin with prenatal stage down to infancy, babyhood, childhood and puberty when the child becomes sexually mature.
- viii) Developmental changes are inter-related and proceed at different rates.
The mental, physical, and social aspects of development are inter-related as such the child develops as a wholistic individual. Although these aspects of traits develop at different rates
- ix) Critical period in development – There are critical periods in development of certain organs and functions of the body. The development of the organs of the body could be perfected through nutrient materials and other accident in order to enable the organ function properly. Any further interference may lead to mal-function or normal deficiency. Examples of such organs are eyes, brain, heart, and kidney.

SELF ASSESSMENT EXERCISE

1. Explain the meaning of cephalocaudal law of human development.
2. Explain what is meant by proximodistal law of human development.

OR

Explain the laws which govern human development as orderly and sequentially

3. list and explain two principles of development

- The expected answers among other are:

- i) The “Cephalo caudal law” of developmental direction states that development proceeds from head to tail (foot).

- ii) The “proximodistal law” of developmental direction holds that development proceeds from trunk to extremities (or outer part of the body).
OR
The laws of developmental direction (cephalocaudal and proximodistal laws) hold that development proceeds from head to foot and from trunk (inside) to extremities (outside).
- iii) Growth and development are continuous but uneven. They always occur at different rates. Growth spurts do appear especially during infancy and adolescence in the process of human growth.
- b) Individual differences and variation occur during development. These occur in children at different rates. The differences happen as the child proceeds to adolescence and eventually old age. But every child is biologically, physiologically and maturationally different from each other.

4.0 CONCLUSION

You have noted that human life is a process of continual development which finds expression in physical, intellectual, personality and social changes across life span. This means that to live is to change. You have also noted that stages of development can involve differentiation, increase in size and complex forms of organization.

5.0 SUMMARY

In this unit, you have studied the basic principles of development. In this regard you learnt that:

- i) The process of development follows an orderly sequence or pattern.
- ii) Development proceeds from general to specific.
- iii) Development is predictable with changes.
- iv) There are individual differences and variations of development.
- v) Growth and development are continuous.
- vi) Development behaviour is controlled by needs
- vii) Development proceeds by different stages.
- viii) Developmental changes are inter-related.
- ix) These are critical periods in development.

6.0 TUTOR-MARKED ASSIGNMENT

What are the basic principles of development?

7.0 REFERENCES/FURTHER READING

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UNIT 3 BIOLOGICAL BASIS OF HUMAN DEVELOPMENT

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- 1.0 Introduction
- 2.0 Objectives
- 3.0 Main Content
 - 3.1 Heredity and Environment
 - 3.2 The Nature – Nurture Controversy
 - 3.3 Conception
 - 3.4 Chromosomal Disorders
- 4.0 Conclusion
- 5.0 Summary
- 6.0 Tutor-Marked Assignment
- 7.0 References/Further Reading

1.0 INTRODUCTION

In unit 2, we discussed the basic principles of growth and development. This unit highlights the biological determinants or basis of human development. Human beings are biological creatures. Also in this unit we shall discuss the concepts of heredity and environment and see that biological heredity and environmental factors contribute to our physical, psychological, social and intellectual development.

2.0 OBJECTIVES

At the end of this unit, you should be able to:

- define the concepts of heredity and environment
- identify terms associated with heredity factors such as genes, chromosomes, sex cells etc.
- describe biological determinants of human development
- describe the nature – nurture basis of human development
- explain chromosomal abnormalities.

3.0 MAIN CONTENT

3.1 Heredity and Environment

Heredity refers to the biological transmission of traits from parents to offspring through genes. It also refers to the biological factors which contribute to the development of the individual through the process of cell division. The two cell divisions associated with human

development are mitosis and meiosis. Mitosis is simply “the process in which a cell duplicates its chromosomes and then divides into two genetically identical daughter cells”. While meiosis is “the process in which a germ cell divides, producing gametes (sperm or ova) that each contain half of the parent cell’s original complement of chromosomes, In humans; the products of meiosis contain 23 chromosomes”.

The environmental factors connote all external conditions and influences that affect the life and development of individual from conception to death. Heredity per se establishes certain limitations and directions of growth and environment furnishes the condition which may accelerate or decelerate the process.

The hereditarian believes that hereditary traits play a dominant role in human development than the environmental conditions such as provision of nutrition, health, sanitation etc. The environmentalists also assert that an adequate environment contribute to development of an individual’s potentialities. In this regard, hereditarians stressed that no matter the amount of environmental conditions provided for an idiot, he cannot attain to the level of university professor. Along this line, the combination of heredity and environment (e.g. social, mental, emotional, physical) contribute handsomely to human development.

3.2 The Nature-Nurture Controversy

The nature – nurture controversy started in the classical Greek era among, philosophers like Plato and Aristotle (Plato’s student) John Locke and others. The areas debated were heredity versus environment, nature versus nurture, maturation versus learning, innate versus acquired etc. In the history of psychology, the great debates centered on the controversy over nature and nurture. This controversy was based on the two schools of thought – the hereditarians ad the environmentalists.

The hereditarians favoured nature and claimed that all hereditary traits were transmitted directly through the chromosomes via genes from generation to generation where environment was of little consequence. In this case, if your father was a criminal, you will be a criminal; and if your mother’s IQ is only 89, then you shouldn’t choose a career like medicine.

On the other hand, the environmentalists claimed that the most important thing was how an individual was raised or nurtured”, not based on genetic endowment. The environmentalists insisted that all people were born genetically equal and that they differ as a result of environmental opportunities.

The modern stand on nature – nurture dimensions emphasized that behaviour has multiple causes. It is the result of heredity interacting with environment that can influence human development. Our hereditary potentialities can be nourished based on the type, amount and quality of our environmental conditions.

3.3 Conception

Heredity involves a number of genetic mechanisms. These genetic mechanisms are as follows:

- i) Development begins at conception from a parent sex cell which is formed by the union of a male sperm cell and a female ovum forming a zygote which contains 46 chromosomes (23 from each parent). Each sperm and each ovum contain minute structures called chromosomes. These chromosomes house smaller hereditary traits known as genes. Each gene (or group of genes) represents a hereditary factor such as color of eyes, or shape of nose etc which is transmitted as a unit. Physical traits developed as the result of the influence of a combination of genes.

Gender is determined by the 23rd pair of chromosomes (ie the sex chromosomes) the normal females inherited one sex chromosome (an x chromosomes); from each parent whereas males inherited an x chromosomes and a smaller Y chromosome. The father determines the sex of a child not the mother. The father (XY) can transmit either an X chromosome or a Y chromosome to his offspring. Identical heredity is present only in twins developed from the same fertilised ovum.

3.4 Chromosomal Disorders

These are chromosomal disorder brought about as a result of inheritance. These disorders are associated with the presence of too few or too many chromosomes. The Down's syndrome, klinefelter's syndrome, turner's syndrome and the XYY syndrome (super male syndrome) are chromosomal disorders. Some of these abnormalities can also result from the uneven meiosis of male gametes. The Down syndrome occurred where a Child inherits extra 21st chromosomes. Children with the syndrome received their "extra" chromosome from their father rather than their mothers (Magenis and his associated 1977). The child will be mentally retarded with a number of distinctive physical features. The Klinefelter's syndrome happened as a result of imbalance in the distribution of X chromosomes. This implies if a Y chromosome from sperm cell reaches the ovum first, the Zygote will become a kinefelter

male (XXY). Here the males fail to develop secondary sex characteristics and show deficiencies on tests of verbal ability.

The Turner's syndrome occurred when the ovum containing no X chromosome is fertilized by an X-bearing sperm; the result will be an XO female (who has Turner's syndrome). The female remains small in stature, and fail to develop secondary sex characteristics. She exhibits mental deficiency. The "Super male" syndrome (the XYY) resulted when the child received the extra Y chromosome from the father. The child is taller than average and tends to score below average on intelligence tests. The poly - x syndrome occurred when a sex chromosome abnormality involving females who inherit three X chromosomes. These females are normal in appearance, remain fertile and tend to score below average on intelligence tests.

SELF ASSESSMENT EXERCISE

Briefly explain the nature – nurture controversy.

You may expect the following answers among others. The origin of the nature – nurture controversy was traceable to the classical Greek philosophers like Plato, Aristotle (Plato's student), John Locke among others. The great debates that focused on the controversy over nature and nurture made the people to fall into different schools of thought namely, the hereditarians and the environmentalists of old.

The hereditarians favoured nature and claimed that all hereditary traits were transmitted through genes from generation to generation where environment was of little consequence. On the other hand, the environmentalists insisted that the most important thing was how an individual was raised or "nurtured" and genetic endowment was of little consequence. They also acknowledge the fact that all people were born genetically equal and people differ as a result of environmental conditions.

The modern stand on nature – nurture controversy emphasized that human behaviour has multiple causes. In this respect, the interplay between heredity and environment contribute greatly to human development.

4.0 CONCLUSION

The human development is a product of heredity and environmental opportunities. The interaction of genetical or hereditary and environmental factors under normal circumstances plays a dominant role in the development of personality and intelligence of an individual.

5.0 SUMMARY

In this unit we have learnt that:

- i) Heredity and environment contribute to human development
- ii) Heredity refers to the biological transmission of psychological traits from parents to progeny or offspring
- iii) Environment from psychological view point refers to the sum total of the stimuli or external conditions which the individual can respond from conception to death.
- iv) The modern solution to nature – nurture controversy highlighted that it is the result of heredity interacting with the environment conditions that favoured human development.
- v) Human development begins at conception when a sperm cell from the male unites with the female ovum to form a zygote. This process is known as fertilisation as indicated in module 3, unit I.
- vi) The fertilised egg contains 46 chromosomes, 23 from the male and 23 from the female i.e. the normal zygote contains 46 chromosomes (23 from each sex).
- vii) The normal female inherits sex chromosomes called an X chromosome from each parent. The adult female has XX chromosomes only. The male inherits an X chromosome and Y chromosome. The adult male has XY chromosomes. The father not the mother determines the sex of a child.
- viii) The chromosomal abnormalities or disorders occasionally inherited by children are the Down's syndrome, Klinefelter's syndrome, Turner's syndrome, and the XXY syndrome

6.0 TUTOR-MARKED ASSIGNMENT

1. Explain each of the following terms:
 - a. heredity
 - b. psychological environment
 - c. identical heredity
2. List and describe four chromosomal disorders in human development.

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UNIT 4 SCIENTIFIC METHODS IN DEVELOPMENTAL PSYCHOLOGY

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- 1.0 Introduction
- 2.0 Objectives
- 3.0 Main Content
 - 3.1 Developmental Psychology
 - 3.2 The Observation Method
 - 3.3 The Survey Method
 - 3.4 The Case Study Method
 - 3.5 The Experimental Method
- 4.0 Conclusion
- 5.0 Summary
- 6.0 Tutor-Marked Assignment
- 7.0 References/Further Reading

1.0 INTRODUCTION

Psychology is a science as well as an art. In this regard, it requires scientific methods of investigation using certain research tools. In this unit, you will be exposed to various methods of studying developmental psychology. You all know that developmental psychology is a branch of psychology which is the scientific study of human development and its changes and behavioural patterns

2.0 OBJECTIVES

At the end of this unit, you should be able to:

- identify and discuss four major scientific methods of studying developmental psychology with appropriate examples
- discuss some practical applications of these methods in developmental psychology.

3.0 MAIN CONTENT

3.1 Developmental Psychology

Developmental psychology is an inter-disciplinary and multi-disciplinary field, made of sociology, anthropology and biology. Human life is a process of continual development. The developmental changes in human life find expression in physical, intellectual, personality and social changes. The field of developmental psychology

can benefit from developmental research as a result of prevention of problematic behaviour among the various stages of human development. In this section, seven prominent research methods employed in the study of human development are:

- i) The observation method
- ii) The survey method
- iii) The case study method – The chemical care study development care study – longitudinal progression
- iv) The experimental method
- v) The observation method

3.2 The Observation Method

The observation method carries out observational studies which yields significant result on developmental characteristics of children. The observation method is classified into two namely, maturation observation method and participant observation method. In maturation observation the researcher observes the specific behavioural characteristics of children or adolescents or adults in natural setting. It enables the researcher to study individuals independently of their ability to report on themselves while it does not disturb or affect the events under investigation. The participant observation as a research enables the researcher to become part and parcel of the group which he wants to observe. In this case, he establishes rapport with the group of children or adolescents (even adults) in order that they may not become conscious of his presence so that they may not hide their actual behaviour or overt behaviour.

The observation method may have a number of limitations such as the subjectivity of interpretation and collection of data from overt behaviour which does not provide reliable information regarding internal mental process.

3.3 The Survey method

The survey method especially the social survey method employs interviews (structured / unstructured) and questionnaire for the determination of incidence and prevalence of given attitudes and behaviour with identifiable population. For instance, the researcher may be interested in studying the abnormality and prevalence of drug abuse among adolescents or to find out the prevalence of certain child-rearing or maltreatment of widowhood practices and so on.

3.4 The Case Study Method

This method focuses upon a single individual rather than a group of subjects of different ages within behavioural problems. The case study method is used in baby biographies and in clinical approaches involving maladaptive children and adults. The case study method is categorized into the clinical case study or case history and developmental case study. The clinical case study is designed to gather information and present condition of the subjects. In clinical case study information is specifically collected from the following sources: biodata, past history such as the state of mother during pregnancy, relation between children and parents of the family and so on; and present condition may derive information from physical, mental, and social -emotional of child's development after birth.

The developmental case study or genetic method uses two approaches to collect the data viz:- longitudinal approach and cross-sectional approach. The longitudinal approach is employed by the researcher for studying human development in order to compare the same individuals at different intervals between birth and maturity or at any specific age bracket. The researcher observes their developmental characteristics regularly from year to year. This approach is used to study physical, mental, language, emotional and social developmental characteristics of children, It also allows researchers to plot individual growth curves in such areas as language, motor and cognitive development.

The cross-sectional approach compares different groups of individual of varying age cohort to specific aspect of developmental stages.

3.5 The Experimental Method

The method offers cause and effect relationships. It is a study in which the researcher manipulates one or more variables known as independent variables and measures other variables termed dependent variables (Mills, 1969). The independent variable is assigned to be the causal factor in the variables being studied while the dependent variable is usually some measure after subjects' behaviour (Zanden, 1978). The experimental method uses a systematic procedure called experimental design. It provides guidelines to the researcher to carry out his research sequentially. The experimental design is made up of the experimental group and control group for the purpose of testing hypotheses. The control group is associated with the experimental group except that the researcher did not introduce change into it. The control group provides a mental standard against which the changes in the experimental group can be measured. For instance undergraduate class students talk noisily when the lecturer is out of the room but become quiet when the lecturer

enters; the change in the level of lecture room noise is the dependent variable and its cause by the lecturer's presence is the independent variables.

SELF ASSESSMENT EXERCISE

Distinguish between longitudinal method and cross-sectional method.

4.0 CONCLUSION

The methods of studying developmental psychology research involve the applications of the observation, survey, case study, and the experimental methods.

5.0 SUMMARY

In this unit we have learnt that:

- i. The research methods employed in the study of Developmental Psychology include the observation, the survey, the case study, and the experimental methods.
- ii. The observation method yields important result on developmental characteristic of the child. This method is classified into two namely observation method (which concentrates on the specific behavioural characteristics of Childhood, Adolescent hood and Adulthood stages) and participant observation (where the researcher becomes part and parcel of the group which he wants to observe).
- iii. The survey method focuses on the study of incidence and prevalence of given attitudinal behaviour within identifiable period.
- iv. The case study focuses after single individual behavioural problems. The case study is categorized into the clinical case study or case history and developmental case study which are subdivided into longitudinal approach and cross sectional approach.
- v. The experimental method offers cause and effect relationship through researcher's manipulation of dependent and independent variables. It uses the experimental design and control group.

ANSWER TO SELF ASSESSMENT EXERCISE

The longitudinal method undertakes continuous testing or measurement of subjects in individuals while the cross – sectional method compares varying groups of individuals of different age cohort.

6.0 TUTOR-MARKED ASSIGNMENT

Identify and explain two research methods of studying developmental psychology as a discipline with appropriate examples.

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MODULE 2 MAJOR THEORIES OF HUMAN DEVELOPMENT

| | |
|--------|---|
| Unit 1 | Sigmund Freudian Theory of Psycho-sexual Development |
| Unit 2 | Behaviouristic Learning Theories of Development |
| Unit 3 | Psychosocial Theory of Erick Erikson |
| Unit 4 | Cognitive Theory of Human Development. The Cognitive Development View |

UNIT 1 SIGMUND FREUDIAN THEORY OF PSYCHO-SEXUAL DEVELOPMENT

CONTENTS

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| 3.2 | The Oral Stage |
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| 3.4 | The Phallic Stage |
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| 3.6 | Genital Stage |
| 3.7 | Ego Defense Mechanism |
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1.0 INTRODUCTION

The stage concept of human development implies that human development is divided into step like levels with clear-cut changes in behaviour occurring from one stage to the next. The stage concept of human development should be compared to the process of insect metamorphosis.

In this Unit, we will learn the theory of psychosexual development named after Sigmund Freud. The Unit also serves to introduce to us other major stage theories in Human Development (Psychosocial theory of Erik Erikson and cognitive development theory of Jean Piaget). These theories as guide to action will help us to observe and describe, explain, predict and influence the major stages of human development. The contents of psychosexual development theory of Sigmund Freud in this unit should specify the objectives below:

2.0 OBJECTIVES

At the end of this unit, you should be able to:

- identify and describe briefly the stages of psychosexual development
- outline and explain Freudian theory of personality structures
- list and explain at least two ego defense mechanisms.

3.0 MAIN CONTENT

3.1 Psychosexual Stages of Development

Sigmund Freud postulated that a child passes through five major progressive stages of psychosexual development namely: oral, anal, phallic, latency and genital. Each stage is characterized by certain developmental and behaviour changes. Further, each stage possesses for children a unique conflict that they must resolve before they pass on to the next stage. According to Robert, Poulos and Marnur (1977) individuals may become so addicted to the pleasure of a given stage that they are unwilling to move on to later stage. This also may be as the process of stagnation which individuals experience including fixation as a result of frustration or overindulgence. Fixation in the view of Zanden (1978) is the tendency to stay at a particular stage to be troubled by the conflict of the stage and to reduce tension by means of the behaviour characteristic of that stage.

3.2 The Oral Stage of Psychosexual Development (Birth to 18 months)

For Freud, the oral stage of infancy is a critical period in personality formation. The centers of pleasurable body movements are the mouth, lips and tongue. The child regards sucking his mothers breast as the most pleasurable activity. But conflict ensues when the source of love or pleasure is terminated i.e. the breast feeding. The child at this stage is self-centered and pre-occupied with his own needs. He also experiences common problems associated with fixation as dependent personality with unnecessary demand for mothering, oral aggressive, and excessive oral behaviours such as the compulsive eating, nail biting etc.

3.3 Anal Stage (18 months to 3 years)

This stage refers to the stage when the focus of pleasurable body zone shifts from mouth to anus, rectum and bladder. The child takes most pleasurable activities in urinating and defecating. The source of conflict

results in toilet training by the mother. The child develops ambivalent attitudes as a result of parent's interference with his activities. The child also resolves conflict between his need for parental love and his need for instinctual gratification through the development of life long attitudes toward cleanliness, submissiveness, orderliness, punctuality etc. The problems alongside with fixation are hostile and challenging personality accompanied with adherence to rules, regulations, neatness and orderliness.

3.4 The Phallic Stage

This stage refers to approximately the age of three to six. The focus of pleasurable body zone shifts from anus to the genitals (the sexual organs). The child's pleasurable body activity results to masturbation. Another important development at this stage are the Oedipus complex and Elektra complex.

The Oedipus complex implies that the male child feels sexual love for the mother and perceives his father as hostile rivalry which leads him to fear punishment through "castration by the father and eventually called castration anxiety". This conflict is resolved by identifying with his father and repressing his desire for his mother. In female child, Elektra complex occurs where she feels sexual love for the father and hates her mother. This leads her to conclude that she has been castrated and otherwise feels inferior that finds expression in female, "penis envy". In this regard, the problems expressed in this stage for both male and female children are sexual problems in adulthood (impotence or frigidity) homosexuality and failure to handle competitive relationships.

3.5 The Latency Stage (Age of 6 to 12 years)

While anal and phallic stages correspond to pre-primary school years, the latency stage corresponds to the primary school years in which children suppress most of their infantile sexual feelings or sexuality and become interested in games and sports. Further, the boys associate with their fellow boys and girls and engage themselves in learning skills and values etc.

3.6 Genital Stage (12 to 18years)

This stage corresponds to part of senior primary school and junior secondary schools.

In this stage, the focus of pleasurable activity shifts to the members of the opposite sex. Both boys and girls experience romantic and emotional feelings. At this stage, Sigmund Freud postulated that human behaviour is determined by id, ego and superego personality functions. He identified the nature of anxiety as conflicts among 'id' – impulses;

superego, demands and ego defenses. Id is that part of mind controlled by the pleasure principle and will. Id impulses clash with person's need to adapt to society. As a child grows he develops the ego and superego. The ego as the conscious part of the mind acts as a mediator between an individual's instinctive id, impulse and external reality. As his ego develops, the child learns to make compromises between his internal urges and parental and societal controls. The superego is regarded as conscience part of the mind that helps children, adolescents and adults to develop a moral code and ideal behaviour. The ego and superego develop as parts of the personality as the child goes through psychosexual growth stages. In the course of a child's development, the id, the ego and the superego do not appear simultaneously. The id is already present at birth. The ego develops as the infants satisfy his needs with the interaction with the environment. Later years the superego develops as the custody of the rules and values of environment.

Freud identifies several defense mechanisms which children, adolescents and adults use to excuse their difficulties or shortcoming and failure.

SELF ASSESSMENT EXERCISE 1

1. Explain the stage concept of development
2. List five stage of Freudian theory of Psychosexual Development and describe any one of them with appropriate examples.

You may wish to add more to the brief answer

- i). The stage concept of development means that development is divided into step like levels with clear-cut changes in behaviour occurring from one stage to the next.
- ii). The five Freudian Psychosexual stages of development are the oral stage, anal stage, phallic stage, latency and genital stage. The Latency stage corresponds to the primary school years. At this stage, children suppress most of their infantile sexuality. They also become interested in games and sports. This stage encourages the formation of peer group. Both sexes engage themselves in learning skills and development of values.

3.7 Ego Defense Mechanisms

Ego operates on reality principle. According to Freudian theory, ego defense mechanisms are activated when an individual confront serious anxiety and emotional conflict. They are mental devices used by individuals to protect themselves from distortion of reality. The most common defense mechanisms are projection, reaction formation,

rationalization, displacement, repression, denial, sublimation and regression. These defense mechanisms are used to protect the ego children develop as part of personality development.

Projection defense mechanism occurs as an individual ascribes his unacceptable behaviour to others, to justify self defense. Reaction formation implies that an individual protects himself against recognizing aspect of his personality that he would find unacceptable by developing the opposite behaviour. For rationalization, an individual exhibits a convincing reason for doing something unacceptable. Displacement implies that the aggression tendency is redirected to a person. In repression an individual exhibits unacceptable impulse driven from conscious feelings of anxiety and guilt. Denial or regression occurs when an individual protects himself from unpleasant reality by not perceiving its existence; while sublimation, denotes where unacceptable drives are channeled into socially acceptable or creative activities.

SELF ASSESSMENT EXERCISE 2

1. Identify and briefly explain three Freudian personality structures
2. List five ego defense mechanisms and describe any of them.

You may include the following answers in addition

The three Freudian personality structures are 'id', ego and superego. The id operates on pleasure principle and while the ego works on the reality principle. The superego operates on moral principle. The infant for instance has no knowledge of good or bad. Ego is the moderator of id and superego demand. For example, the behaviour of older children and adolescents is a result of the conflict of the id which insists on immediate satisfaction of wishes and the superego which insists the youth respect a set of moral values and standard.

The five ego defense mechanisms are Projection, Reaction Formation, rationalization, displacement and sublimation.etc.

In sublimation, the unacceptable drives are channeled into socially acceptable or creative activities. This implies that sublimation, unacceptable behaviour is repressed and becomes a socially acceptable manner. For instance if parent-child relationship are cooperative, children express their impulses in acceptable and satisfying ways.

4.0 CONCLUSION

The Freudian stage theory of psychosexual development emphasize on progressive stages of child's development as he experienced

psychosexual conflicts' which are resolved through ego defense mechanism.

5.0 SUMMARY

In this unit we have learnt that:

- i. the major progressive stages of psychosexual development of human beings
- ii. the psychosexual conflicts of children are protected by ego defense mechanisms

6.0 TUTOR-MARKED ASSIGNMENT

List and describe five major stages of psychosexual development.

7.0 REFERENCES/FURTHER READING

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UNIT 2 BEHAVIOURISTIC LEARNING THEORIES OF HUMAN DEVELOPMENT

CONTENTS

- 1.0 Introduction
- 2.0 Objectives
- 3.0 Main Content
 - 3.1 Learning Theories of Development
 - 3.2 Define Learning Operant Conditioning
 - 3.3 Classical Conditioning
 - 3.4 Social Learning Theory
 - 3.5 Contributions and Criticism of Stage Theory
- 4.0 Conclusion
- 5.0 Summary
- 6.0 Tutor-Marked Assignment.
- 7.0 References/Further Reading

1.0 INTRODUCTION

You have learnt the stage theories of human development. Now we are going to describe the learning theories of the study of Human Development. There are many views of learning theories in the development of human beings. This will help you to understand that learning is a continuous process in which we modify our behaviour as we encounter success or failure in our environment. Theory is a molar approach to human development and behaviour.

2.0 OBJECTIVES

At the end of this unit, you should be able to:

- identify the three major learning theories of human development
- describe each one of them
- outline their similarities and differences.

3.0 MAIN CONTENT

3.1 Learning Theories of Development

Learning theories of Human Development otherwise known as Behaviouristic theories of human development. The learning psychologists see learning as communicative which build upon itself the main purpose of learning theories is to explain learning operations. Learning theories are rooted in a mechanistic orientation in which the model for all occurrences is the machine. Whereas Stage theories are

derived from one organistic orientation in which the underlying model is the biological organism and its activities;

In this unit only three major learning theories will be discussed viz: operant conditioning by B.F. Skinner; classical conditioning by Iven P. Pavlov and social learning theory by Bandura.

3.2 Operant (Instrumental) Conditioning Theory of Human Development

This theory will be discussed briefly. The operant conditioning by B.F. Skinner then will be emphasized Skinner was an American psychologist who represents a school of thought known as radical behaviourism. He believed that it is relevant and profitable to observe and identify factors that influence individuals' behaviour. Skinner sees learning as a series of experiences which influences behavioural change in the same way that conditioning does. Here conditioning denotes the process by which conditioned responses are learned or acquired. For Skinner, each learning experience is a stimulus that produces a behavioural response.

In operant or instrumental conditioning, the response must be made before a reward is given or before an aversive stimulus is removed. In this regard, when an individual's response is followed by a positive reinforcer or reward, then there is a tendency for the individual to repeat the response. For example food serves as a positive reinforcer for a hungry child.

Skinner conducted an experiment (with a hungry rat). He constructed a box and fitted the box with a lever. Skinner placed a hungry rat in the box with a bar projected out with the food dish beneath it and a light bulb above the bar. In the box, the rat moves up and down restlessly and occasionally presses its paws upon the bar. The container with pellets of food is attached in such a way that as soon as the rat presses the bar a pellet of food falls into the dish. The rat eats and immediately presses the bar again. In the experiment, Skinner observed that the food reinforces bar-pressing, while the pressing response is instrumental in producing a reinforcer (food) which acts as a stimulus for response (Salivation).

Thus, Skinner demonstrated the role of reinforcement in the Learning process. He concluded that the behaviour we develop as we grow up depends on the consequences that followed these behaviours in future.

3.3 Classical Conditioning Theory of Ivan. P. Pavlov

Whereas in instrumental conditioning the behaviour is emitted by the organism, and the association between emitted behaviour and the reinforcement is contingent upon behaviour. But in classical

conditioning, behaviour is elicited by stimulus and the association is between a stimulus elicited responses.

The influential work of Ivan Pavlov, a Russian Psychologist is based upon the idea of classical conditioning. Briefly, Ivan Pavlov studies the salivation reflex in dogs in the presentation of a piece of meat. He discovered that by pairing the sound of a bell with the piece of meat, he established a new relationship between a stimulus (the sound of a bell) and a response (Salivation) that was not associated with one another. Note that the meat is the unconditioned stimulus and the saliva produced by the dog is the unconditioned response, while the striking of the bell is the conditioned stimulus.

SELF ASSESSMENT EXERCISE 1

Outline three differences between Operant and classical conditioning.

You may expect the following answers in addition. Thus:

- i). In Operant conditioning, the behaviour is emitted by organism while in classical conditioning, behaviour is elicited by stimuli.
- ii). Operant and classical conditioning differ in terms of association, in operant conditioning the association is between the emitted behaviour and reinforcement applied while in classical conditioning, the association is between stimuli and elicited responses.
- iii). Operant conditioning exhibits an active form of learning while classical conditioning encourages passive learning

3.4 Social (Observational) Learning Theory

Social Learning Theory emphasize on social variable as determinants of behaviour and personality. Albert Bandura, a Stanford University Psychologist was the proponent of social learning theory. Bandura's position differs from Skinnerian (radical behaviourist) viewpoint and other traditional S-R theorists. For instance "a phenomenon skinnerians have difficulty explaining is the way a child acquires a new behaviour that the child never attempted before; the key steps involved in the process of learning from models, the way that consequences (reinforcement, punishment) influence future actions, and the development of complex behaviours (Thamos, 1992).

Social Learning theorists like Bandura proposed that children learn through imitation or modeling on what they see and hear other people say and do. Bandura (1969) uses the word modeling along with the terms as observational learning and vicarious learning to mean that the

child adds to his repertoire of actions by seeing or hearing some-one else perform the behaviour rather than by overtly manifesting the behaviour himself.

The new behaviours are learned initially through observing and imitating a model than through differential reinforcement. The models are classified as real-life, symbolic and representational. For example at home and school, real-life models for younger children are parents and relatives; and teachers and other persons in the community. Children also acquires symbolic model through the presentation of instructions and pictures especially in the school. A model presented by television is representational. Further, in the schools and homes much attention is given to exemplary models.

SELF ASSESSMENT EXERCISE 2

Discuss the importance of learning theories in human development and behaviour.

4.0 CONCLUSION

This Unit highlighted some learning theories (operant and classical conditions and social learning theory) of human development and behaviour.

5.0 SUMMARY

In this unit we have learnt

The relevance of learning theories as they influence human developmental stages and behaviour.

You have seen that psychologists usually see how instrumental conditioning and respondent conditioning influence a child's development and behaviour while social learning theory emphasized how a child learn actively through imitation and modeling what he sees and hears other people say and do.

6.0 TUTOR-MARKED ASSIGNMENT

In the course of your study, discuss how Learning theories contribute to human development and behaviour

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UNIT 3 PSYCHOSOCIAL THEORY OF ERICK ERIKSON

CONTENTS

- 1.0 Introduction
- 2.0 Objectives
- 3.0 Main Content
 - 3.1 Developmental Stages
 - 3.2 Trust versus Mistrust
 - 3.3 Autonomy versus Shame and Doubt
 - 3.4 Initiative versus Guilt
 - 3.5 Industry versus Role Confusion
 - 3.6 Identity versus Role Confusion
 - 3.7 Intimacy versus Isolation
 - 3.8 Generativity versus Stagnation
 - 3.9 Ego Integrity versus Despair
- 4.0 Conclusion
- 5.0 Summary
- 6.0 Tutor-Marked Assignment
- 7.0 References/Further Reading

1.0 INTRODUCTION

In unit 1 of module 2, we have learnt Freudian theory of Psychosexual Development. Sigmund Freud concentrates on the sex instincts and focuses upon psychosexual development. Along this line, this unit will discuss stages of Erick Erikson psychosocial theory. Among the best known of the Neo-Freudian scholars is Erick Erickson's. He pays more attention on the important socio-cultural determinants of human development. He agrees with Freud that people are born with basic instincts and that the personality has three components namely the id, ego and superego. Erikson (1972) stresses that children are active, adaptive explorers who seek to continue their environment rather than passive creatures who are molded by their parents. He also assumes that human beings are rational creatures whose thoughts, feelings and actions are largely controlled by the ego. Erikson has been known as an ego psychologist because he believes that an individual must first understand the realities of the social world (an ego function) in order to adapt successfully and show a normal pattern of personal growth (Shaffer, 1985).

His primary concern is with psychosocial development but he did not clearly specify the types of experience that an individual must have in order to cope with and revolve psychosocial crises. Erikson also notes that individuals develop a "healthy personality" by mastering life's outer

and inner dangers. Development follows the epigenetic principle which according to Erikson (1968) implies that anything that grows has a ground plan and out of this ground plan the parts arise, each having its time of special ascendancy, until all parts have arisen to form a functioning whole”.

Fundamentally, Erikson believes that all human beings face eight major crises or conflicts during the course of their lives as they interact with their social environment.

2.0 OBJECTIVES

At the end of this unit, you should be able to:

- identify and describe eight major stages of Erikson’s theory of psychosocial development
- Compare Freudian theory of psychosexual development and Erikson’s theory of psychosexual development.

3.0 MAIN CONTENT

3.1 Developmental Stages

Erik Erikson observed that human beings follow a developmental Pattern throughout their lifetime. He formulated eight major stages of Development accompanied with crisis or conflicts during childhood, Adolescent hood and adulthood.

Erikson identifies the stages as:

- i) Basic Trust versus Mistrust (birth – 1 year).
- ii) Autonomy versus Shame and Doubt (1 - 3 years)
- iii) Initiative versus Guilt (3 – 6 years)
- iv) Industry versus Inferiority (6 – 12 years)
- v) Identity versus Role Confusion (12 – 20 years)
- vi) Intimacy versus Isolation (20 – 40 years)
- vii) Generativity versus Stagnation (40 – 65 years)
- viii) Ego Integrity versus Despair (65 – death)

These developmental stages from infancy to old age are associated with psychosocial crisis or conflicts, social setting and favourable outcome. Basically interaction takes place between an individual and social environment during each developmental stage which can change the course of personality either positively or negatively.

3.2 Trust versus Mistrust

Basic Trust versus Mistrust Stage (oral - sensorial stage) of psychosocial development occurs predominantly during infancy. This stage relates to Freudian oral stage and Piagetian sensori motor stage. In the family, the mother breast – feeding baby develops trust with human affection, love and warmth. The deprivation of affection and love in infancy threatens the baby to turn into mistrust or a suspicious person.

3.3 Autonomy versus Shame and Doubt

The Autonomy versus Shame and Doubt correspond to anal – muscular stage of psychosexual theory of Freud. This stage also corresponds to pre-operational stage (symbolic) of Piaget's Cognitive developmental theory. The autonomy versus shame and doubt of Erikson's theory of psychosocial development fall within early childhood stage. Children at this stage become autonomous in their personal care, and explore their physical environment and reaffirm their autonomy in terms of self control.

3.4 Initiative versus Guilt

The Initiative versus Guilt corresponds to psychomotor stage of Piaget and Phallic stage of Freud. Majority of children at this stage have finished their pre-primary school and start primary school according to Nigerian National Policy on Education (2004). Here children initiate activities or games with their peers having achieved physical autonomy. In this respect if the family and school environment are strict and inflexible, they may acquire undesirable feelings of guilt.

3.5 Industry versus Role Confusion

The Industry versus Inferiority of developmental stage of psychosocial of Erickson corresponds to latency stage of Freudian theory of psychosexual development and concrete operational stage of Piaget. Children at this phase may have finished primary school and enter junior secondary school. Majority of children acquire a sense of mastery, competence and responsibility while in the school environment. In contrast, children tend to experience an inferiority complex when there is no acknowledge of the progress achieved.

3.6 Identity versus Role Confusion

Erickson's developmental stage of identity versus role confusion (Genital stage of Freud and Formal operations of Piaget) in fact correspond to puberty and adolescence stage with the age bracket of 12

to 18 years plus. Erickson made the greatest contribution to the study of identity in adolescence which he expressed as “identity crisis” Here the adolescent is in search of his own identity quite different from his parents or from socio-cultural setting especially among his peer groups and out groups. At this stage the adolescent also tends to search for vocational identity among a variety of professions and specialties. He also exhibits sexuality identity, ideological identity and personal identity apart from vocational identity. The sexuality identity leads the adolescent to identify with adults, male or female which may cause problems for many teenagers (Melgosa, 2002) while ideological identity accounts for another dilemma the adolescent has to face. Teenagers cannot continue to blindly accept the parent’s or other influential adults’ ideologies (Melgosa, 2002). It is a search for personal identity. In regard, some resolve their problems early and others take years to do so.

In this circumstance, failure in the identity search eventually brings role confusion in his belief, ideas, sexuality and career or vocation.

3.7 Intimacy versus Isolation

Another developmental stage involves Intimacy versus Isolation (youth stage). The adolescent’s role confusion is shaped at this stage. He/she develops the ability to work toward a specific career accompanied with intimate relationship with friends. This is a stage of young adulthood where a man and a woman establish an intimate relationship which leads to mutual trust and healthy development. The failure of adolescents to establish interpersonal relationships can lead to isolation.

3.8 Generativity versus Stagnation

The adulthood stage according to Erikson is associated with Generativity versus Stagnation of psychosocial crisis and healthy personality. The adults build up new family and work. They also contribute beyond their immediate families and to society through hard work as well as through the upbringing of their children and relatives, the adult’s failure to attain their developmental tasks and goals may lead them to stagnation or fixation.

3.9 Ego Integrity versus Despair

At the old age, adults experience psychosocial crisis in terms of integrity versus despair as a result of retirement. The individuals at stage have retired this and accept life as it is and face his last days and death with dignity. Some of them acquire satisfaction in looking back upon their life. If the psychosocial crisis of the older individuals is not solved, dissatisfaction occurs when they are approaching the end of their lives

which leads to despair. Despair according to Erickson (1963) implies the feeling that the time is now short, too short for the attempt to start another life and to try out alternative roads to integrity.

SELF ASSESSMENT EXERCISE

Identify eight major stages of psychosocial development according to Erik Erikson and discuss any one of them.

You may expect the following answers in addition:

Eriksson's eight stages of human development are:

- i) Basic Trust versus Mistrust (Infancy)
- ii) Autonomy versus Shame and Doubt (Early childhood)
- iii) Initiative versus Guilt (Middle childhood)
- iv) Industry versus Inferiority (late childhood)
- v) Identity versus role Confusion (Adolescenthood)
- vi) Intimacy versus isolation (Young Adulthood)
- vii) Generality versus stagnation (Middle Adulthood)
- viii) Integrity versus Despair (old age)

Each crisis or stage is phrased as a struggle between two opposite or conflicting personality characteristics. The trait of trust vies for dominance over mistrust in the infant's personality. This occurs between birth to 18 months. The trust versus mistrust personality developmental stage of Erickson correspond to Freudian, oral stage and Piaget's sensorimotor stage (birth to two years). The predominant social setting is the family where the breast-feeding baby develops trust if it has hygienic and feeding care with human affection, love and warmth. The deprivation of love and affection, and warmth in infant threatens the baby to turn into mistrust or suspicious person.

4.0 CONCLUSION

Erick Erickson, Danish psychologist of neo-Freudian psychoanalytic tradition identifies eight major psychosocial stages. Each psychosocial crisis or stage is phrased as a struggle between two opposite or conflicting personality characteristics throughout a person's life span.

5.0 SUMMARY

In this unit we have learnt that:

- i). Erick Erickson, the Danish Ego Psychologist of psychoanalytic tradition concentrates on sociocultural determinants of human development.
- ii). Erickson's theory of psychosocial development of an individual undergoes eight psychosocial crises. These crises are the trait of trust that vies for dominance over mistrust in the infant's personality. The next stage, the trait of autonomy struggles for shame and doubt.
The third stage is initiative versus guilt. The fourth stage is industry which vies for the ascendancy of inferiority. The fifth stage occurs during puberty and adolescence which is identity confronting role confusion.
The sixth stage happens at youth stage which implies intimacy versus isolation, for positive or negative inter personal relationships.
The seventh stage is known as generativity versus stagnation which occurs during adulthood.
The eighth stage is the integrity which vies for despair as crisis.
- iii). Erickson made the greatest contribution to the study of identity in adolescence which he expressed as identity crisis.

A basic task of the adolescent stage versus the search for vocational identity, personal identity, sexuality identity, and ideological identity. The solution of these crises contributes to the success of the stages.

6.0 TUTOR-MARKED ASSIGNMENT

1. Discuss psychosocial crisis of identity versus role confusion of puberty and adolescence with appropriate examples.
2. Identify two similarities and three differences between Freudian Psychosexual theory and Erickson's psychosocial theory.

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UNIT 4 COGNITIVE THEORY OF HUMAN DEVELOPMENT. THE COGNITIVE DEVELOPMENT VIEW

CONTENTS

- 1.0 Introduction
- 2.0 Objectives
- 3.0 Main Content
 - 3.1 Basic Concepts in Jean Piaget's Cognitive Development
 - 3.2 Piagetian Stages of Cognitive or Intellectual Development
 - 3.2.1 Sensorimotor Stage
 - 3.2.2 Pre-operational Stage
 - 3.2.3 Concrete Operational Stage
 - 3.2.4 Formal Operational Stage
 - 3.3 Implications for Human Development – Contribution and Criticism of Jean Piaget's Cognitive Development Theory
- 4.0 Conclusion
- 5.0 Summary
- 6.0 Tutor-Marked Assignment
- 7.0 References/Further Reading

1.0 INTRODUCTION

In units, 1, 2, and 3 of Module 2, we have learnt four major theories of human development, the Freudian psychosexual stages of human development; the psychosocial stages of development by Erik Erickson; and learning theories. The Sigmund Freud, Erik Erickson and Jean Piaget among others see development as separated into stages. They are known as major stage theorists of human development. The stage concept implies that development occurs in step like fashion with clear – cut changes in behaviour which consistently involves one stage to the next.

In this unit, you will learn a giant of 20th century psychology known as Jean Piaget who focused on the occurrence of changes in the child's mode of thought which gave rise to Piaget's cognitive stages of development. Jean Piaget believes that cognitive development involves the interaction of heredity and environmental experiences. This unit will briefly discuss Jean Piaget's cognitive stages of human development.

2.0 OBJECTIVES

At the end of this unit, you should be able to:

- explain certain concepts in the cognitive stages in Development of Piaget. (Schemas, assimilation, accommodation, equilibrium etc).
- describe Piagetian cognitive stages of human development.

3.0 MAIN CONTENT

3.1 Basic Concepts in Jean Piaget's Theory of Cognitive Development.

Piaget assumes that intelligence is made up of two divisions namely functional invariants and structure. The functional invariants are of two types known as organization and adaptation. He further grouped adaptation into two processes namely accommodation and assimilation. The next word Piaget used is schemas (singular schemata). Piaget believes that intelligence works through the terms mentioned. Basically organisation and adaptation are inborn intellectual functions of cognitive structures. Organisation is "the process by which a child combines existing schema into new and more complex intellectual structures" or bodies of knowledge (Shaffer, 1985). A schema is a logically organized pattern of thought or action that one constructs to interpret some aspect of one's experiences.

Piaget believes that a child is born with a number of reflection schemata. Piaget (1977) described three kinds of intellectual or cognitive structures as behavioural schemata, symbolic schemata and operational schemata. The behaviour schemata are organized patterns of behaviour that are used to represent and respond to objects and experiences (Shaffer, 1985, Zanden, 1978, and Gardner, 1978). The symbolic schemata imply that the child is capable of representing actions mentally to satisfy his/her objectives. The internal mental symbols (images or verbal codes) are used to help child to represent aspects of experience.

The operational schemata imply that a child performs on his or her objects of thought through a cognitive operation that include mental activities such as actions implied in mathematical symbols.

The goal of organisation is to advance the adaptive function. Adaptation is the aspect of intelligence which organizes the interaction between the individual and environment. It is a process of adjusting to the demands of the environment. Adaptation also occurs when the process of assimilation and accommodation are balanced. According to Piaget,

adaptation occurs through two complementary activities of assimilation and accommodation.

Assimilation is the psychological process by which the child understands the new information or interprets new experiences in relation to the existing scheme which is integrated into cognitive structures – assimilation. Piaget believes that as we assimilate new experiences, we will also accommodate such experiences. Accommodation as cognitive structure and complement of assimilation is the process of modifying existing schemas (old schemas) or structures in order to account for new experiences (or new schemas). Every assimilation of schemata involves an accommodation to that schema (mental model) or experience. Everyday children are repeatedly assimilating new schemata and accommodating their cognitive structure to those experiences.

The total process of assimilation and accommodation for maintaining intellectual balance at all age levels in Piagetian theory of cognitive development is called equilibration. According to Piaget, cognitive development is marked by altering states of equilibrium and disequilibrium.

3.2 Piagetian Stages of Cognitive or Intellectual Development

Piaget asserts that intelligence unfolds in four distinct stages or periods between early childhood and adolescence namely:

- a. The sensorimotor stage (birth to 2 years)
- b. The preoperational stage (2 to 7 years),
- c. The stage of concrete operations (7 to 11 years) and
- d. The stage of formal operations (11 years to 21 years)

3.2.1 Sensorimotor Stage

The sensorimotor stage maintained that children are relying on behavioural schemata as a means of exploring and understanding the environment. Sensorimotor child is characterized by sense of perception and vocalization. At the preoperational stage, the child is thinking at a symbolic level but the logical thoughts are not yet, developed. Piaget divided this stage or period into the pre-conceptual stage or pre-logical stage which lies between two to four years and the intuitive reasoning stage or the perceptual operation stage from four to seven years. In our review of this level of pre-operation thought, we need to understand what Piaget meant by operations. Operations, in Piaget's system, are ways of manipulating objects in relation to each other. These

manipulations of objects may be according to size or colour etc. The manipulations of objects can be concrete operations (Physical manipulation) or formal operations (mental manipulation). The Pre-conceptual child (2 to about 4) is characterized by egocentric use of language and heavy dependence on perception in problem solving (Thomas 1992). Here the child's talk is social communication i.e asking parents to reach a toy he cannot get or telling mother he wants to go to the toilet etc. The child also increases the use of symbols with causal relationships and develops conservative concepts. Piaget at this stage identified logical mathematical experience as another interactive experience with the physical world.

3.2.2 Pre-Operational Stage

The intuitive period or stage of pre-operational (from age 4 to age 7) is marked by more social or communicative speech and greater dependence or intuitive thinking rather than just on perception. This stage marks the movement toward greater decent ration. The child is able to see more than one factor at a time that influences an event (Piaget, 1969). The mental activities which are necessary for schooling begin to develop various kinds of conservation as quantity, length, number etc and by appearance; density and seriate objects in order and size starting with the smallest to the largest etc.

3.2.3 Concrete Operational Stage

The next stage of Piagetian cognitive development is the concrete operational stage (about 7 years to 12 years). The concrete operations stage emphasized the children capability of performing operations that are directly related to objects. Children can now conserve, classify, seriate, decentre, accommodate and participate in the most of the things required of them at school. Piaget noted that one of most significant characteristics of cognitive activity at the concrete operations stage (Grinder 1978) children's achievement in number, mass, weight and so on. Children at this stage increase in knowledge and skills and decrease in egocentrism or self-centredness.

3.2.4 Formal Operational Stage

Finally the next stage of Piaget's cognitive development is the formal operations stage (about age 11 to age 15 plus). This stage according to Jean Piaget is the cognitive development in adolescents and relationship with other developmental and cultural phenomena.

The term formal is used by Piaget because adolescence at this level of thinking possesses the ability to consider the possible, and therefore, is

able to reason about the form of an argument apart from its contents (Manaster, 1977).

The formal operational child will manipulate relations between relations to work with proportion, correlations and probability. Here the child becomes capable of logical thinking with abstractions. He /she acquires higher order operations which imply applying abstract concepts and hypothetical events to his / her problems. Basically the adolescents can accept assumptions, hypothesis and laws for problem solving.

Manaster emphasized that the adolescent at this stage makes use of the hypothetico – deductive method of reasoning indicating “formal thought begins with a theoretical synthesis. This implies that certain relations are necessary and thus proceeds in the opposite direction.

3.3 Implications for Human Development – Contribution and Criticism of Jean Piaget’s Cognitive Development Theory

The Piagetian theory of cognitive development has a lot implication for teacher–interns and professional teachers” in the field. The teacher should apply the step like arrangement of the theory to provide effective teaching and learning.

SELF ASSESSMENT EXERCISE

Explain the following key concepts in Piaget’s theory of cognitive development:-

- a. Organisation
- b. Adaptation
- c. Accommodation
- d. Assimilation
- e. Schema

You may include the following answers accordingly:

In Piaget’s cognitive development theory, organisation is the process by which a child combines existing schema into new and more complex cognitive structures or bodies of knowledge. Organisation within the child’s innate tendency ensures that all schemas are properly interrelated and adjusted to each other to form an integrated self.

In Piaget’s theory, adaptation as aspect of cognitive structures is the interaction between the individual and the demands of his/her environment. It also occurs when the process of assimilation and

accommodation are balance. According to Piaget, adaptation occurs through two complementary activities of assimilation and accommodation respectively.

Assimilation is the psychological process by which the child understands the new information or interprets new experiences in relation to the existing held schema (mental model) of the world. Piaget believes that as we assimilate new experiences (new information), we will also accommodate these experiences.

In Piagetian cognitive development theory, accommodation as cognitive structure and complement of assimilation in the process of modifying existing schemas (old schemas) or structures in order to match new schemas or new experiences to the world of reality. Every child is repeatedly assimilating new schema and accommodating his cognitive structures to these experiences.

Schemata are a central concept in Piagetian theory. The schemata are the cognitive structure that a child evolves for dealing with specific kinds of situation in his /her environment. It is logically organized thought or action that a child constructs to interpret some aspects of his/her experiences. Piaget believes that a child is born with a number of reflective schemata. She identified three kinds of intellectual or cognitive structures as behavioural schemata; Symbolic schemata and operational schemata.

4.0 CONCLUSION

Piaget believes that intellectual growth proceeds through step like stages which determines maturational readiness.

5.0 SUMMARY

In this unit we have learnt that:

- i) Piaget's work concentrated on the cognitive stages in development.
- ii) He describes children as active that explores knowledge (schemata) and modify these cognitive structures through the processes of organization and adaptation.
- iii) Schema is an organized pattern of thought or action that the child constructs to interpret his/her experiences or cognitive structure
- iv) Organization is the process by a child rearranges his existing knowledge into schemata.
- v) Adaptation comprises of two complementary activities namely assimilation and accommodation. Assimilation in Piaget's theory

is the process by which the child attempts to match new experiences to existing schemata (old schemata). Accommodation implies the process of modifying existing schemata in response to new experiences or schemata.

- vi) Equilibrium in Piagetian theory is a balance between the processes of assimilation and accommodation.
- vii) The key concepts of Piaget's theory are schemata, assimilation, accommodation and equilibrium and they find expression in the four developmental stages of Piagetian theory. The sensorimotor stage, the preoperational stage (the pre-logical stage and intuitive operation stage); the concrete operational stage and the formal operational stage. The sensorimotor stage (0 – 2 years) maintained that children are relying on behavioural schemata as a means of exploring and understanding the environment.

The preoperational stage (2-4 years) involves the child's thinking at symbolic levels. It is subdivided into pre-conceptual stage (pre-logic stage 2 – 4yrs) and the intuitive reasoning stage (4 to 7yrs). The pre-conceptual child is characterized by egocentric use of language and heavy dependence on perception in solving problems. The intuitive stage is marked by more social or communicative speech and intuitive thinking or reasoning' and greater decent ration.

The concrete operational stage (7 to 12 yrs plus) is marked by manipulation of objects. Children at this stage can conserve, classify, seriate, decentre, accommodate and participate fully in most of the activities in primary schools.

The formal operations stage (12 to age 15 plus) is also marked with logical thinking with abstractions among adolescents. The adolescent makes use of the hypothetico- deductive methods of reasoning. He / she can accept assumption, hypothesis and laws of problem solving.

(ix) The Piagetian theory of cognitive development has a lot of implications to the teacher interns and teachers in the school system whether pre-primary, primary and secondary schools.

6.0 TUTOR-MARKED ASSIGNMENT

List and describe Piagetian stages of cognitive development theory.

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MODULE 3 PHASES/STAGE OF HUMAN GROWTH AND DEVELOPMENT (THE LIFE SPAN)

| | |
|--------|---|
| Unit 1 | Prenatal Development |
| Unit 2 | Neonatal Development/Infancy |
| Unit 3 | The Concept and Nature of Childhood Development 1 |
| Unit 4 | Adolescence Stage |
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UNIT 1 PRENATAL DEVELOPMENT

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1.0 INTRODUCTION

Growth and development are the result of interaction of the influences of genetical and environmental factors, maturation and learning. These aspects of human development cannot be understood without the knowledge of biological processes. In general there are five stages of human growth and development. These stages are prenatal, neonatal, childhood, and adulthood adolescence, in this unit therefore we shall discuss the prenatal development stage of life span.

2.0 OBJECTIVES

At the end of this unit, you should be able to:

- discuss biological aspects of human development
- identify and describe three stages or phases of prenatal development
- describe at least two factors affecting prenatal development.

3.0 MAIN CONTENT

3.1 Biological Determinants of Human Development

The foundation of life starts from conception with the union of a male sex cell. (Spermatozoon) and ovum, the female sex cell to form zygote (the fertilised ovum) this process is called fertilisation. The sex determination occurs at the time of conception; sex depends on the type of a male (gamete) sex gamete cell (spermatozoon) that unites with a female gamete sex cell (ovum). The spermatozoa and ova are alike and carry equal numbers. They contain chromosomes. Chromosomes are the hereditary materials of life or genetic materials. The chromosomes carry genes, which determine heredity or inheritance. The chromosome also determines the sex of the child xx. The mature ovum contains 22 matched chromosomes and one unmatched which may be an x or a y chromosome the x and y chromosomes are sex determining chromosomes.

For example, we have the following offspring from two parents (Bok and Musa).

- 1 Human beings normally pass 46 chromosomes, 22 pairs are similar in size and shape in men and women. The 23rd pair, is the sex chromosome in males.
- 2 Women have two chromosomes (xx) and men have an x and y chromosome (xy). Provided that if the spermatozoon with x chromosome unites with ovum (egg)

SELF ASSESSMENT EXERCISE 1

1. Explain the following terms:
 - a) Genetics
 - b) Chromosomes
 - c) Genes
 - d) Fertilization
 - e) Sex determination.
2. Expected answers are as follows:
 - i) Genetics is the scientific study of biological inheritance
 - ii) Chromosomes are the hereditary materials\ factors\ characters\ found in the nuclei of male and female sex cells.
 - iii) Fertilization is the union of a spermatozoon and ovum, to zygote.

- iv) Genes are the units, that determine male gamete inherited characteristics (colour, size, height etc) located in the chromosomes; female ovum (fertilized egg)
- v) Sex determination is based on what produces new individual after fertilization. If the male spermatozoon with an x chromosomes fertilizes the ovum with an x chromosome the result is a female child (xx). Further, if the sperm with y chromosome fertilizes x, the result is a male child.

3.2 Prenatal Development

The prenatal period begins as conception and lasts as birth with approximately “270 to 280 days” in length or nine calendar months (Hurlock, 1978).

The whole process of prenatal development involves three main stages viz.

- i) The period of the zygote development (the germinal period)
- ii) The period of the Embryo development (the embryonic period) and
- iii) The period of the fetus (the fetal period)

3.3 Stages of Prenatal Development The Zygotic Period (the Germinal Period)

This zygotic period extends from fertilization to the end of the second week. The zygotic period is characterized by the growth of the zygote with an initial linkage between the zygote and the support system of the mother. This is the period of rapid growth as a result of increase in cells. The zygote is unplanted in the uterine wall after fertilization.

Embryonic Period

The embryonic period lasts from the end of the second week to the end of the eight weeks. The period is characterized by rapid growth as the developing organism emerges as recognized human fetus. It also established the placental relationship with the mother.

Furthermore, during this period, the main organs like the arms, legs and the internal organs like the kidney, liver, lungs etc. the face, mouth, ears start to be defined better in the 8th and 9th weeks, a recognizable human body ensued.

The period of the embryo is therefore a period of rapid development of the nervous system. The embryo is attached to the wall of the uterus by means of the placenta, which functions as a roof, which permits the

entry of food materials, oxygen and hormones and removal of carbon dioxide and metabolic wastes. The cephalocaudal and proximodistal development occur at this period.

Foetal or Fetal Period

The fetal period is the final stage in prenatal life which begins with the ninth weeks and ends with birth. This implies that the growing organism is called the foetus. During this period the differentiation of these major organs continues, and the organs themselves become capable of assuming their specialized functions (Arey, 1974). At the eighth week, the internal and external organs developed and the organism now resembles a human being.

3.4 Factors Affecting Prenatal Development

Some identifiable factors affecting the child especially of the prenatal development from fertilization to birth according to Akinboye et al (1982) include;

- Malnutrition and age of mother; drug usage, maternal illness, effect of Rh and other blood factors, maternal emotional state etc. The maternal nutrition should be of high quality for the survival of the pregnant mother because the foetus depends directly on its mother for food supply through the placenta and umbilical cord. Equally the mother's emotional state changes from one pregnancy to another which depends in the age of the mother.

In addition, the Rhesus factor (Rh factor) is one of the causes of the mental subnormality as a result of incompatibility of mother's blood (rhesus negative) and her foetus is rhesus positive. This incompatibility of blood may lead to damage of its blood, or brain etc.

SELF ASSESSMENT EXERCISE 2

List five prenatal environmental factors affecting human development and discuss any of their conclusions.

4.0 CONCLUSION

In this unit, you have learnt the biological determinants of human development especially in terms of how life begins and sex determination. You have also learnt the stages of prenatal development. For example, as we have discussed zygotic embryonic and fetal stages. You have therefore learnt the factors affecting prenatal environmental

factors such as malnutrition and age of mother, drug usage and its effect, Rh factors, emotional state and so on.

5.0 SUMMARY

In this unit we have learnt that:

- i) Growth and Development are a result of the interaction of heredity, environment, maturation and learning.
- ii) The biological basis of human development.
- iii) Prenatal development as the first stage of human development which involves three main stages\ processes such as the germinal embryonic and fetal periods. It is approximately nine calendar months or 250 days.
- iv) Certain factors affect these stages or periods of prenatal development like malnutrition and age of mother, drug usage, effect of Rh factor, internal emotional state and so on.

6.0 TUTOR-MARKED ASSIGNMENT

1. Briefly explain Sex determination in prenatal development.
2. Explain two factors that affect prenatal development

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Refer to EDU 211- Educational Psychology

UNIT 2 NEONATAL DEVELOPMENT

CONTENTS

- 1.0 Introduction
- 2.0 Objectives
- 3.0 Main Content
 - 3.1 Neonate Development
 - 3.2 Characteristics of Neonate Development
 - 3.3 Physical Motor Development
 - 3.4 Perception Development
- 4.0 Conclusion
- 5.0 Summary
- 6.0 Tutor-Marked Assignment
- 7.0 References/Further Reading

1.0 INTRODUCTION

In Unit 1, we have discussed the prenatal development as one of the stages of growth and development. But Unit 2 deals with the second stage of child development known as the neonatal development commonly called infancy. The newborn child is known as neonate during the period of 0 to 2 years. In this stage emphasize will be on the physical, physiological and motor development at infancy.

2.0 OBJECTIVES

At the end of this unit, you should be able to:

- define neonate development/infancy
- describe the physical and motor development of infancy
- identify the major characteristics of infancy.

3.0 MAIN CONTENT

3.1 Neonate Development

Explanation of Neonate Development: Neonate development or infancy is a period of postnatal. An infant is a child in the first period of life from zero to two to three years. It is the shortest period of all developmental stages or periods. The infant or the period of the neonate occurs from the cutting of the umbilical cord to the end of the second week of postnatal life. An infant is a child that must adjust to the new environment outside the mother's body. Growth is still very rapid during this period.

3.2 Characteristics of Neonate Development

This stage is characterized by rapid growth and development. The survival of the child depends on physiological, social, psychological, digestive and physical adjustments that must be made at this stage of development. Physiologically, the child's survival depends on the adjustment of outside the womb body in terms of breathing in and breathing out of oxygen. Psychologically the result of complaints during birth is completed when the infant begins to show signs of development progress in behavior (Hurlock,1972); the digestive adjustment of the child boards on proper feeding and elimination of excretory waste products in order to determine the amount of sleep and comfort of the child. This feeding, sleeping and crying are process of adjustment of the child which determines developmental changes in size, weight and structure of the infant.

This stage is also characterized by stoppage or half in growth and developmental environment. This is a period of plateau in development.

3.3 Physical and Motor Development

In this unit, we have learnt that physiological changes that occur between conception and prenatal life. The infant growth and development follow two patterns basically cephalocandal and proximodistal principle. After birth, there are manifestations of physical and motor development.

Physical development refers to developmental changes in size, height, weight and strength of various parts of the body. It is also depends on the ability of the infant to control and coordinate the movements of the head, trunk and leg muscles. Motor development is closely related. The infant's is physical growth takes place in generally orderly fashion with predictable changes occurring at different age levels. The motor development follows the cephalocandal law. The infant's motor development depends upon the overall physical growth.

Precisely, the levels of skeletal and muscular development enable the infant to crawl, walk, climb and grip objects. The infant also gain mastery over his head followed by his trunk and leg muscles. The infant's development of manual skills proceeds through the proximodistal law. Not all body system grow at the same rate, for example, the skeletal and internal organ system show growth spurts, one in entry infancy and the other at adolescence. Infancy and adolescence are marked acceleration of growth called the infant growth spurt or the adolescence growth spurt. Apart from physical and motor development

in infant experiences perceptual development. The infant experiences a pattern sequence of changes the focusing and organizing visual events.

SELF ASSESSMENT EXERCISE

1. Explain the concept of neonatal development.
2. List and explain two characteristics of infancy or neonatal development.

4.0 CONCLUSION

In the unit, you have learnt the concept of neonatal development as another critical period in child development. The period of infancy emphasizes the physical and motor development.

5.0 SUMMARY

In unit 2 of Module 3, we have learnt that:

- i) The neonate means a newborn.
- ii) The neonate period or infancy is the first two weeks following birth.
- iii) The neonate development or infancy occurs from the cutting of umbilical cord to the end of the second week of postnatal life.
- iv) Infancy is characterized by rapid growth and development accompanied with physical, physiological, social, digestive and physiological adjustments.
- v) The physical and motor development of infants follow cephalocaudal and proximodistal laws.
- vi) The infant experiences perceptual development in terms of sequential changes in focusing and organizing visual events.

6.0 TUTOR-MARKED ASSIGNMENT

Briefly describe physical and motor development of the period of infancy.

7.0 REFERENCES/FURTHER READING

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UNIT 3 THE CONCEPT AND NATURE OF CHILDHOOD DEVELOPMENT

CONTENTS

- 1.0 Introduction
- 2.0 Objectives
- 3.0 Main Content
 - 3.1 Concept and Nature of Childhood Development
 - 3.2 Early Childhood
 - 3.3 Developmental Tasks
 - 3.4 Developmental Tasks in Infancy and Early Childhood
 - 3.5 Middle Childhood
 - 3.6 Developmental Tasks of Middle Childhood
 - 3.7 The Period of Late Childhood
- 4.0 Conclusion
- 5.0 Summary
- 6.0 Tutor-Marked Assignment
- 7.0 References/Further Reading

1.0 INTRODUCTION

In units 1 and 2, we discussed the prenatal and neonatal (infancy) development. You can now explain the developmental changes in prenatal and neonatal stages. You are about to study another interesting stage of human development known as childhood development. However some psychologists classified childhood into early, middle and late childhood, others grouped childhood into early and late childhood while some regarded baby-hood as part of childhood. Basically this stage comes after infancy or neonatal development.

2.0 OBJECTIVES

At the end of this unit, you should be able to:

- explain the concept of childhood
- describe the physical, perceptual language, mental, social and emotional development of early childhood
- list and explain developmental tasks of infancy and early childhood stage.

3.0 MAIN CONTENT

3.1 The Concept and Nature of Childhood

Childhood starts after infancy at the age approximately two years and extends to the age of five or six years. Childhood is divided into three separated periods namely early, middle and late childhood. Early childhood falls within the age bracket of 2 to 5 years. The middle childhood extends from approximately 6 years to 8 years and late childhood extends from approximately 9 years to 11 years plus. Some psychologists talk about early childhood or baby hood and vice versa while others omitted it completely. In this case childhood is divided into early and late childhood. In this unit, therefore we shall follow the three sub-stages of childhood. These sub-stages of childhood extend from 2 to 11 years and this age cohort covers pre-primary education to primary education according to Nigerian National Policy on Education currently revised in 2004. Often, this happens when the child beings junior secondary school (9 to 11 years) based on socioeconomic status and educational attainment of some parents. However, adequate attention should be paid to these categories of childhood. Since nursery and primary education are the bedrock of the educational system.

3.2 Early Childhood

Early childhood is the first stage of childhood development. It extends from 2 years to 5 years or approximately 6 years. Whereas the infancy falls within the Piaget's sensori motor period of intellectual development where the infant learns and develops motor skill by manipulating objects around him. The early childhood extends to piagetian second stage of intellectual development from two to 7 years called pre-operational when the child begins to acquire vocabulary and he can use the language within his environment completely, play and skip about.

Physically, the early childhood is most rapid in growth as that experienced in infancy. There are qualitative changes in size, height and body proportions of changes in proportion are also an adult apparent in cognitive development. The child is self-centered and concerned with objects of play or trip. But he becomes interested in other children.

At this stage, improvement is made in the aspect of perceptual development. In this regard the child develops a variety of motor skills because he enjoys the repetition of learning skills such as self- feeding, playing, jumping and so on. The child develops perception of size, shape, colour and time etc.

In terms of language development, the enabling environment and early childhood training help the development of vocabulary.

Psychologists conducted some studies and concluded that there is positive correlation between intelligence and language development. Mentally, the child develops rapidly, in terms of acquisition of new experiences. The child is inquisitive and reflects this through questioning about this environment. Since he is in primary school at the age of 6 he is able to use symbols in language, play and problem solving.

Socially, the child learns to cooperate with his friends and others. On shared interests especially in playing, simple stories etc

Emotionally, early childhood provides personal and social adjustment of the child. The emotional expression in early childhood are intense.

At this stage, Hurlock identified certain social expectations for every stage of development namely, childhood, adolescent-hood and adulthood called development tasks.

3.3 Development Tasks

In unit 2, we have identified the various stages of common development as infancy, childhood, adolescent-hood and adulthood. Each stage has certain tasks to acquire for later development. In every culture, for example, individuals are expected to master certain saleable skills and acquire approval patterns of behavior. Failure to acquire these developmental changes and patterns of behaviour acquired at various ages during the life span may result in unacceptability in the society. These skills and patterns acquired are what Hurlock called social expectations for every stage of development. The social expectations according to Havighurst are Developmental tasks. *According to Havighurst, development task is a task which arises at or about a certain period in the life of the individual, successful achievement of which leads to happiness and to success with later tasks, while failure leads to unhappiness and difficulty with later tasks.*” This implies that an individual must acquire an acceptable degree of competency in learning skills and behavior as expected of his age, sex and after circumstantial situation. Again failure to achieve saleable skills and expected behavior in each stage of human development will difficult, in lead to the next stage. The mastery of developmental tasks may be affected by malnutrition, health, state-of- poor socioeconomic status of parents, low intelligence, etc.

3.4 Developmental Tasks in Infancy and Early Childhood

You have known the meaning or definition of developmental tasks which that should be mastered during each stage of life from infancy to old age. It is interesting to let us identify the developmental tasks that are associated with infancy and early childhood at the age bracket of zero to 5 years plus. The age falls into pre- primary school period. The developmental tasks of infancy and early childhood are adopted from Havighurst. These tasks include learning to be mobile; communicate by the use of language of immediate environment; take solid foods; and control and eliminate body wastes. In addition, the child learns to differentiate a boy from a girl (sex differences), achieving physiological stability; learning to distinguish right from wrong and developing conscience (through teaching of moral and tradition) forming simple concepts of social and physical realities such as parents (mother and father), other realities, etc. Learning to relate oneself emotionally to parents, siblings and other people are all crucial in speech as a result of being an only child or a result of deficiency in the use of words. The parents and teachers are influential factors to the achievement of the tasks. The influence of the home begins before birth and through out life.

SELF ASSESSMENT EXERCISE

1. Define the concept of developmental tasks.
2. List and explain two developmental tasks in infancy and early childhood.

3.5 Middle Childhood

In sub-unit 3.1, we learnt early childhood stage of human development is the foundation in the early years, which eventually determine what the child's adjustment to life will be. Each child develops at his own rate and pattern. It is characterized by traits associated with the period.

The middle childhood lies between six and eight years. According to National Policy on Education, the child is supposed to be in primary school after attending pre- primary school if he has access to it. The child leaves his home to formal schooling in primary school and if the child is progressing very well, he is supposed to be in primary school. The middle childhood is characterized by Piaget's concrete operational stage. During this stage the child prefers concrete objects. The child is more sociable and full of activities and likes learning by doing. He likes to play games with his peers. It is an age of competition and rivalry.

Physically, the period of middle childhood is characterized by body coordination and movements. The increased in physical coordination enables him to be vigorously involved in activities.

Morally, the child looks at his parents and his teachers as models of morality.

Socially, the child plays with peers and mates. Peers do influence the behavior of young children through modeling or imitation. Parents and relatives as well as teachers play important roles in the social development of the child.

Emotionally, in the period of middle childhood, the child becomes more emotional in terms of expression of happiness, anxiety, sadness; affection and love, among parents, teachers and other people are even their peers and mates. Both parents and teachers should understand that anxiety and fear affect the behavior of children at these stages. Psychologists believe that anxiety and fear affect intellectual performance of the child. The child should study in an anxiety and fear-free environment.

Mentally, this is a period of discovery Piaget observed that children at this stage are able to learn the operations of subtraction, addition, Multiplication of numbers that involves logical thinking as basis to classify objects and events and understand how they are related while in primary school. They are able to solve simple problems that involve mass, weight, number, length, area and quantity.

3.6 Developmental Tasks of Middle Childhood

You have learnt the meaning of the concept- developmental task in unit 3.1. In this respect, developmental tasks of middle childhood like any other period of human development demands the social expectations of a child at home, community and school which the child must accomplish in order to cope with the stage of development successfully. The developmental tasks of middle childhood and late childhood are treated the same in this module.

3.7 The Period of Late Childhood

Psychologists regard this period as the “gang age, “the age of conformity” or “the age of creativity” because group activities play important roles in the child’s life. In the view of Hurlock, late childhood is called the going age because older children are interested in activities with their peers and want to belong to a gang, which expects them to conform to the patterns of behavior and to the values and interest of its

members. This period or stage falls within the age bracket of 6 to 11 years.

According to the National Policy on Education (2004), the child leaves the home and nursery school and Primary school. Today some of them may enter junior secondary school that is ages 10 to 11 years. The period involves operational stages of Piaget's cognitive development especially in the sub-stage or intuitive stage (4 to 7 years) and concrete operations (8 to 11 years). Basically the child is involved in intuitive thinking as such he can handle numbers of various reactions to each other and arrange objects orderly. This period is marked by more social or communicative speech and greater dependence on intuitive thinking rather than just on perception (Thomas 1992). Personality development and socialization are essential at this age and their experiences are tied to their immediate environment. At this stage, the child also develops moral standards of their group. He accepts the group activities as he prepares himself to the next stage.

Let us find out the developmental tasks of middle childhood and late childhood. The children fall within the age cohort of 6 to 11 years. They should acquire social, schooling and play skills in the primary school etc.

Some of the developmental tasks to develop these skills are identified by Havighurst as:

- i) Learning physical skill or motor skill for ordinary games. This implies that some of the skills are acquired by children through interaction with their peers. The parents and teachers should enable them develop these motor skills through proper coordination, supervision and teaching.
- ii) Building a wholesome attitude toward oneself as a growing organism. In this respect, children should be trained in the areas of sanitation, and health habits.
- iii) Learning to get along with age- mates. Sociometrically, children should be taught to maintain good relationship with their peers and age- mates.
- iv) Beginning to develop appropriate Masculine or feminine social roles;
- v) Developing fundamental skills in reading, writing and calculating.
- vi) Developing a conscience, a sense of morality and a scale of values. For example, children should be exposed to good family up bringing and religious and moral instructions especially in primary school.

- vii) Developing attitudes toward social groups and constitutions-children should be encouraged to obey rules and regulations; of their school etc. they should be taught to respect one another in their everyday living.
- ix) Achieving personal independence: children should be encouraged to work independently with their school activities, and develop self skills.

4.0 CONCLUSION

In this unit, you have learnt the concept and nature of early childhood. You have learned the importance of developmental tasks in infancy and early childhood.

5.0 SUMMARY

In this unit, we have learnt that;

- 1) Childhood is sub-divided into early childhood, middle childhood, and late childhood.
- 2) The physical, mental, social and emotional characteristics of early childhood.
- 3) Developmental tasks are known as social expectations of an individual through the various stages of development.

6.0 TUTOR-MARKED ASSIGNMENT

What are the developmental tasks to develop the skills in middle childhood and late childhood?

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UNIT 4 ADOLESCENCE STAGE

CONTENTS

- 1.0 Introduction
- 2.0 Objectives
- 3.0 Main Content
 - 3.1 Nature and Concept of Adolescence
 - 3.2 Characteristics of Adolescence
 - 3.3 Developmental Tasks
 - 3.4 Problem of Adolescences
- 4.0 Conclusion
- 5.0 Summary
- 6.0 Tutor-Marked Assignment
- 7.0 References/Further Reading

1.0 INTRODUCTION

In Unit 3 we have attempted to discuss childhood stage of human development. You can now explain the characteristics of childhood which is basically divided into early, middle and late childhood. Efforts were also made on the physical, social, emotional and mental development of childhood stage. In addition, developmental tasks of this stage was highlighted in terms of its relevance and social expectations.

In this Unit, adolescence stage of human development has been viewed in some societies as a very difficult period of life. Specially, the unit examines the meaning, characteristics, concerns, problems, and developmental tasks of this stage and some theories associated with adolescent's stage.

2.0 OBJECTIVES

At the end of this, you should be able to:

- define what adolescence is: explain the concept of adolescence
- out line the needs of adolescent
- identify and describe three themes associated adolescent stage
- define developmental task
- list and explain the developmental tasks of Adolescence
- state and explain at least four problems of this stage.

3.0 MAIN CONTENT

3.1 Nature and Concept of Adolescence

Psychologists, guidance counselors and educators have given various definitions of adolescence from time to time in terms of physical, mental, social and emotional maturity. Some psychologists define adolescence as a transition period between childhood and adulthood. Lewin (1968) has held the view that the adolescent is really in a “no man’s land”. He is neither a child nor an adult but is caught in a field of overlapping forces and expectations between the field of childhood and field of the adult. It is some-times referred as the period of teenage. This stage of development varies in length from family to family; from one socio-economic level to another, and from culture to culture. It includes the period of mental, emotional and social maturity, legal maturity as well as physical maturity. Some psychologists maintained that chronologically adolescence lies roughly between ages of 12 and 18 years. The psychologist Jersild defined adolescence as that span of years during which boys and girls move from childhood to adulthood. This movement has mental, social and physical implications on the adolescents.

This period experienced a spurt in physical growth, changes in holding proportions and the maturing of primary and secondary sex characteristics. Zanden (1978) called this period, adolescent growth spurt when the adolescent experiences a very rapid increase in height and weight. The growth spurt typically occurs at about the age of twelve in girls and fourteen in boys. It is known as pre-adolescence or pubescence. The pre-adolescent growth spurt is followed by a period of speedy growth known as puberty. This period expand rapid increase in the size of the genital organs and the individual attains sexual maturity. Puberty is attained between 13 and 14 years of age. However, puberty (the beginning of sexual maturity) occurs from the first menstrual period (i.e. the menarche) in girls and the appearance of pubic hair in boys. During puberty, male hormones (androgen) in boys are increased in production, and female hormones (estrogen) in girls. Puberty stage varies from culture to culture and both boys and girls develop at different rates. Some are earlier maturers; others are late developers which have implication in the development of all round efficiency. In Nigeria the period of adolescence is regarded as between 11 and 18 years.

The adolescence period is divided into early adolescence and late adolescence. The early adolescence is usually referred as the period of teenage which extends from 13 to 16 plus, while late adolescence covers

the period until 18, the age of legal maturity. In Nigeria, at the age of 18, individuals are eligible to vote.

3.2 Characteristics of Adolescence

Adolescence is regarded as a period of “storm and stress”. It falls on the Piaget’s formal operational stage of cognitive or intellectual development. Jean Piaget calls adolescence the period of formal operations. Its hallmarks according to Zanden are logical and abstract reasoning. Adolescence produces its own form of egocentrism.

Adolescence therefore is characterized:

- i) as a period of search for identity which affects his behaviour in term of clarifications. He imagines where he belongs as he is neither a child nor an adult. He wants to identify himself because he has reached the period of sexual maturity and that of heightened emotionality.
- ii) as a period of problem age because many of them cannot cope with this problems. More so, adolescents want independence in order to have the right of coping with their problems, while they may fall into conflict with their parents, teachers etc.
- iii) as review of rapid changes in the areas of physiological, emotional and physical development especially during early adolescence. There are also changes: in sex roles and demands independence among boys and girls.

The home, school, church, and society, and other agencies of education can help the adolescents to adjust to their responsibilities.

For instance in schools, teachers should help them to adjust their social expectations and make up their educational, career and social concerns.

SELF ASSESSMENT EXERCISE 1

1. Define adolescence
2. Mention two of the physical, social, emotional and mental characteristics of adolescents

You may expect the following answers in addition. Thus:

- Adolescence is defined as a transition period from childhood to adulthood that is accompanied with various physical, social, emotional and mental changes

It is a period of storm and stress accompanied with heightened emotionality or emotional disturbance.

- Adolescence is a period of no-man's land because he is neither a child nor an adult.
- ii) The two physical characteristics of adolescents are:
- a. Adolescents are marked by a spurt in physical growth, changes in body proportions and the maturing of primary and secondary sex characteristics OR
- Increase in height and weight
 - Rapid increase in the size of genital organs
 - Appearance of pubic hairs in boys
 - Increase in production of female hormones in girl
 - Occurrence of menstrual period in girls
- b. The two social characteristics of Adolescents are:
- This is the period of heterosexual relationship
 - This is a period of search for identity.

3.2 Developmental Tasks

In Unit 2 we have defined developmental task. The concept of developmental tasks as earlier stated was developed by Havighurst. He proposed the developmental tasks for American adolescents which was adapted for Nigerian adolescents. He points out that any developmental task becomes appropriate for an individual at every stage of human development (Childhood, Adolescent hood and Adulthood). The basic characteristics necessary for developmental task for an individual are physical maturation, societal expectations and attitudes, psychological competence, personal values and aspiration. In this connection, Havighurst defined developmental task as:

“A task which rises at or about a certain period in the life of the individual, successful achievement of which leads to his happiness and success with later task in the society and difficulty with later tasks”. Psychologically, developmental tasks of adolescent will help them to become integrated into the society. The developmental task of adolescents was developed from foreign culture, but it can be adopted in our cultural and socio-economic conditions of Nigerian setting with certain modifications. The ten developmental tasks of adolescent as indicated by Harvighurst are:

- i). Achieving new and more mature relation with age mate of both sexes – the adolescent is expected to maintain a cordial relationship with his age group.
- ii). Achieving a masculine or terminate role – An adolescent is expected to exhibit sex - roles
- iii) Accepting one’s physique and using the body effectively – An Adolescent worry a lot about his physical appearance in term of size, height and weight
- iv) Achieving assurance of economic independent – The Adolescent needs to acquire vocational skills to become economically independence
- v) Achieving emotional independence of parents and other adults - should be able to control their aggressive tendency through learning.
- vi) Selecting or preparing for an occupation – Adolescents are expected to choose their career based on certain factors that influence them. There is the need for career counseling.
- vii) Preparing for marriage and family life – maintaining a friend relationship may lead them to marriage life.
- viii. Developing intellectual skills and concepts for necessary civic competency – they also expected to develop their intellectual skills in readiness for secondary schools and higher institution
- ix) Desiring and achieving socially responsible behaviour and - adolescents are expected to identify accepted behaviour
- x) Acquiring a set of values as a guide to behaviour – Adolescents should address the societal form and standard accepted through exhibiting proper behaviour

Mastering the developmental tasks is not easy. Adolescents need much to develop necessary sustainable skills to be useful adults in the social

- Adolescents exhibit social, l and recreational interests
- Pay attention to members of opposite sex
- Adolescents like to form peer groups and move in gangs
- They want to be noticed and recognized
- The two emotional characteristics of adolescents are:
- Adolescents exhibit heightened emotional tension (because of the acute emotional disturbances of this period that some psychologists/educators called adolescence a period of “storm and stress”)
- They may be isolated or rejected within their peer groups/ gangs.
- They are moody and not predictable
- They share ideas

The two mental characteristics of Adolescents are:

- Ability to carry out formal operations i.e. ability to carry out logical and abstract reasoning
- Ability to solve more difficult problems
- Ability to formulate hypothetical issues
- Increase in the level of vocabulary and use of imagination
- Improvement of attention span and
- Ability to generalize facts and make decisions

The problem of adolescents will eventually show whether developmental tasks are achieved or not. The failure to achieve these tasks results to certain problems in the life of adolescents.

Some psychologists believe that adolescence period is associated with the theories like Jean Piaget's theory of cognitive development which he calls adolescence the period of formal operations, which is the hallmark of logical and abstract reasoning or thought. Piaget (1967) says that adolescence produces its characteristic form of egocentrism. Erik Erickson maintains that the main task of adolescence is to build and sustain a reasonably stable identity.

3.4 Problems of Adolescents

In the study of adolescence period, we have defined and stated the needs of adolescence. Further, we have outlined the characteristics and developmental tasks of adolescents. In this unit we are going to outline and explain the problems of adolescence and suggest various ways of solving these problems.

The developmental tasks of adolescence refer to the problems that they typically face at this period of their life development. Adolescence is regarded as a period of transition from childhood which images many developmental changes. According to Hall (1968) adolescence is the period of strain and stress fraught with many described as problems. Some psychologists identified the problem of adolescence as a result of cultural conditions/ child-rearing practices. But there are some relevant cultural skills that should be acquired by adolescents.

Majority of the adolescents' problems arise actually when their developmental tasks are not fulfilled. Apart from the problems of maturation in terms of early and late maturers. Maturing earlier than age-mates constitute a problem that affects their physical appearance either positively or negatively which may serve as embarrassment to both sexes. The consequence of early-and-late maturer's view of physical, social and general appearance can be noticed.

SELF ASSESSMENT EXERCISE 2

1. Define Development Task
2. List and explain two Developmental Tasks of Adolescents
 - i) The expected answers are that development tasks refer to those problems or difficulties that adolescents typically face at this period of development. The adolescents are concerned and their developmental tasks become the vital problems/difficulties which they must be met and solve during and after transition from childhood and adulthood respectively. The adolescent can not become a successful adult if he did not achieve his development tasks
 - ii) The two developmental tasks of adolescents are:
 - a. Achieving a masculine or feminine social roles
 - b. Selecting and preparing for an occupation
 - a. For achieving a masculine or feminine role, the home, school and the entire societal setting must expose the young boys and girls to learn masculine and feminine roles respectively for them to be relevant to the society. An adolescent boy or girl is expected to perform the role appropriate to him or her just like adults.
 - b. In the selecting and preparing for an occupation, an adolescent should get proper guidance of his parents, teachers and school counselors if the available to help him to choose a career that tally with his subject combinations and performance after secondary education before going to institutions of higher learning.

4.0 CONCLUSION

Adolescence period is very infant stage in the life of any individual. Attention must be paid at this period because of the issues and problems associated with this stage of life.

5.0 SUMMARY

In this unit we have learnt that:

- i) Adolescence is a period of transition from childhood to adulthood that is accompanied with physical, social, and mental development
- ii) Adolescents are characterized with physical, mental, social and emotional development

- iii) Developmental tasks of childhood, adolescent hood and adulthood refers to those problems that individuals typically face at these stages of their life's development, the success or failure will lead an individual to his happiness or unhappiness in the society. The developmental tasks generally relation to physical, emotional, and mental developments in addition to sex-role typing and sex-role expectations of both boys and girls. The problem of adolescents arise from unsuccessful accomplishments of later tasks in the society.
- iv) Some developmental psychologists like Freud, Piaget and Erickson emphasized the adolescent's social and emotional development; cognitive and psycho-social development.

6.0 TUTOR-MARKED ASSIGNMENT

1. What do you understand by "adolescent growth spurt"
2. List and explain two problems of 'adolescents in Nigerian setting.
3. Suggest three ways of solving adolescents' problems.

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UNIT 5 ADULTHOOD DEVELOPMENT

CONTENTS

- 1.0 Introduction
- 2.0 Objectives
- 3.0 Main Content
 - 3.1 Adulthood Period of Human Development
 - 3.2 Early Adulthood Period
 - 3.3 Middle Adulthood
 - 3.4 Late Adulthood
- 4.0 Conclusion
- 5.0 Summary
- 6.0 Tutor-Marked Assignment
- 7.0 References/Further Reading

1.0 INTRODUCTION

In units 1, 2, 3, and 4, we have discussed prenatal, infant or neonatal, childhood and adolescent hood development. The units also served to introduce us to other stages of human development. You can now explain the various stages of human development by highlighting their developmental stages and problems associated with each stage. Now let us look at the last stage of human development known as adulthood period as specified in the objectives below.

2.0 OBJECTIVES

At the end of this unit, you should be able to:

- define the sub divisions of adulthood
- identify the characteristics of each subdivision (Early, Middle and Late Adulthood)
- state two developmental tasks of each of the following sub divisions (early, middle and adulthood).
- describe physical, physiological and psychological changes that occur during early adulthood, middle age and old age.

3.0 MAIN CONTENT

3.1 Adulthood Period of Human Development

We commonly associate adulthood with aging in terms of biological and social changes across the life span (Zanden, 1968). Biological aging refers to changes in the structure and functioning of the human organism through time. While social aging refers to changes in an individual's

assumption and relinquishment of roles through time (Vander Zandan, 1968). People pass through a socially regulated cycle from birth to death as they pass through the biological cycle (Neugarten, 1969).

Adulthood is the longest period of the life span which according to Hurlock (1980) is subdivided into three periods: early adulthood (approximately 20 to 40 years); middle adulthood or middle age (approximately 40 to approximately 60 years); and late adulthood or "Old age (approximately 60 years to death). People's definitions of early, middle and late adulthood also vary depending upon their current age.

Adult implies grown to full size and strength or matured. Today, legally, adulthood has reached at the age of eighteen or twenty-one when an individual has the right to vote in the political dispensation. Adulthood as the longest life span experienced certain predictable physical and psychological changes accompanied by the beginning of the loss of reproductive capacity or decline which speeds up at old age.

Sigmund Freud of psychoanalytic approach of human development viewed adult life as an already set personality structure. Jean Piaget assumes that no additional cognitive changes occur after adolescence while Kohlberg sees moral development as reaching a life time plateau after early adulthood.

Levinson (1978) identified three sets of developmental tasks that must be coped with during adulthood, namely:

- i) To build, modify and enhance the life structure within the periods of each era depicted as early adulthood, middle adulthood, late adult transition and late adulthood.
- ii) Forming and modifying single components of the life structure. According to Levinson, the components include:
 - Forming and modifying a dream, creating a structure in which the dream can be lived out and attaining goals to fulfill the dream;
 - Forming and modifying an occupation
 - Forming love - marriage and family relationships
 - Forming mutual relationships (e.g. friendships are rare; amicable relationships are more likely)
- iii) The tasks associated with becoming an individual involves reintegrating basic polarities of young-old etc.

3.2 Early Adulthood Period

Early adulthood is a period of adjustment to new pattern of life characterized by “reproductive age, problem age, and settling down age” (Hurlock, 1968). It is also a period of emotional tension (like adolescence period with heightened emotionality), creative age and commitments. Early adulthood period also experienced social isolation as a result of self-centeredness which contributes to loneliness or what Erickson has referred to as an isolation crisis. During this period, individuals have left the late adolescence stage to early adulthood with certain social expectations which differs from culture to culture.

These social expectations have already been mentioned during infancy, childhood and adolescence periods as in units 1, 2, 3, and 4 of Module 3 recognized and known as developmental tasks.

According to Havighurst, the early adulthood developmental tasks are arranged as follows:

- i) **Getting started in an occupation:** Adults who are still in exploration stage of choice of occupation may try to settle down after getting an occupation. Others who have finished their educational career may get occupations that will suit their interests and abilities. The occupation is of economic value to adult at these stages which commit him to adult roles and responsibilities.
- ii) **Selecting a mate** – Immediately an adult settles down with accompanied occupation, he likes to get married, occupational mobility notwithstanding.
- iii) **Learning to live with a marriage partner** – adults who get married at this stage, decide to learn to live with each other for proper adjustments of home.
- iv) **Starting a family** – Adults will eventually learn to start and maintain family.
- v) **Maintaining a home with arrival of children.** Adults would like to manage a home in its ramifications.
- vi) **Tasking a civic responsibility** – Adults should take certain civic responsibilities in communities and society.
- vii) **Finding a congenial social group** – Adults should belong to social groups of interest that will not constitute a hindrance to his

roles, accessibility of social groups will enable him to interact and be able to know the world around him so that individuals will not continue to lag behind among members of their groups.

Hazards arise when the adults cannot meet up with these tasks. In some cases, they become inferior and inadequate to function among their social groups. For instance, adults suffer from prolonged age – group influence and unrealistic aspirations. They are also emotionally disturbed as a result of inadequate personal and social adjustments.

Vocational and family adjustments in early adulthood are prone to problems if inadequate foundations on which to build their adjustments are not met due to role – expectations of this period. The major problems in vocational adjustment at this stage comprise of how to select, prepare and keep a vocation. But successful men and women in terms of vocational adjustment make voluntary changes of jobs and job satisfaction.

3.3 Middle Adulthood (Middle Age)

This period generally lies between age forty and age sixty. It is a long period in the life span and is subdivided into early middle (40 to 50 years) and advanced middle (50 to 60 years).

During middle age, physical and physiological changes become more apparent. It is marked by mental changes especially at sixty years where there is a decline in physical vigor. In Nigeria, at age sixty many adults experience voluntary or involuntary retirement as identified by Donald Super in theory of career development.

The middle age is characterized by the time when men undergo a change in virility and women, a change in fertility. This period also experienced some developmental crisis in terms of parental expectations from their children or children's failures to come up to their expectations. This crisis may come from the death of a spouse. It is also a period of stressful situation in the home, work and social aspects of their lives, and or general evaluation of life. The developmental tasks of middle age involved the problems of adjustment which are difficult to both men and women to attend to.

But most developmental tasks of middle age prepare the individual for successful adjustment to old age. The developmental tasks of middle age as highlighted by Havighurst are as follows:

- i) Achieving adult civic and social responsibility,

- ii) Assisting teenage children to be come responsible and happy adults
 - iii) Developing adult leisure- time activities;
 - iv) Relating oneself to one's spouse as a person
 - v) Accepting and adjusting to the physiological changes of middle age;
 - vi) Reaching and maintaining satisfactory performance in one's occupational career and
 - vii) Adjusting to aging parents,
- The developmental tasks of middle age can be summarized as
- a. Tasks relating to physical changes – Adults should accept and adjust to physical changes that occur during the middle age
 - b. Tasks relating to changed interests – The adults at this stage should develop interest in adult-oriented leisure time activities in family matters as they assume civic and social responsibilities
 - c. Tasks relating to vocational adjustments imply that the middle-aged person should establish and maintain economic status which will enable him to live properly and.
 - d. Tasks relating to family life – The middle – aged person should assist teenage children around him to become responsible and happy adults. The couples should also exhibit harmonious relationship among themselves.

SELF ASSESSMENT EXERCISE 1

- 1a. List three subdivisions of Adulthood period.
- b. State two characteristics of early and middle adulthood
- 2. List and explain three developmental tasks of early adulthood and middle age.

You may expect the following answers:

- 1a. The three subdivisions of adulthood are early adulthood, middle adulthood and late adulthood or old age.
- 1b. The two characteristics of early adulthood are
 - i) The young Adults should play the roles of parenthood
 - ii) The young adults experience heightened emotionality which implies that adjustments to adult life have not been satisfactorily made.

The two characteristics of middle age are:

- i) This period experienced some developmental crisis in terms of parental expectations from their children successes and failure.
- ii) It is a period of stressful situation in the home, work place and social aspects of their lives and general evaluation of life.

- 2a. The three developmental tasks of early adulthood are:
- i) Getting into an occupation based on other priorities – some Adults are still exploring certain occupations in order to settle down. But others who may get career that will suit their interest and ability. Career or occupation services is an economic value to adults
 - ii) Selecting a mate – In many cases when young adults settle down accompanied with occupation, they may like to select mates.
 - iii) Learning to start a family – Young adults get into occupation, select mates and get married, the next thing to them is to learn how a new family starts.
- 2b. The three developmental tasks of middle aged adults are:
- i) Tasks relating to physical changes – Middle aged adults should accept and adjust to physical changes that occur during this period.
 - ii) Tasks relating to vocational adjustments – This implies that middle aged adults should establish and maintain economic status for a better life span.
 - iii) Tasks relating oneself to one's spouse as a person – Good relationship of one's spouse encourages happiness and joyful mood.

3.4 Late Adulthood

Immediately after middle adulthood, the next stage with identical similarities and structural characteristics is the late adulthood or old age.

In adulthood, the later years is classified into two, namely early old age (age 60 to age 70); and advanced old age (70 to death). The beginning of old age is known as elderly who occurs after middle age.

Biologically, aging refers to changes that occur in the structure and functionality based on time frame as humans. It is a continuous process which begins at prenatal and ceases at death.

Physically, it is a period of decline to an individual's physical characteristics. Older people are viewed as physically unattractive and incapable of sexual activity and sickly.

Chronologically, their ages make them to be regarded as elderly deficient in mental activity and aimless in mind based on ignorance, prejudice and superstition surrounding aging for generation or an over estimation of the decline in intellectual functioning unit that occurs with

aging. Contrarily certain professions in Nigeria finally retired at the ages of 65 and 70 respectively. Aging is also accompanied by various physiological changes. For instance the old age experienced decline in capacity for physical work and exercise. There are marked individual differences and variations on certain problems or adjustment. Majority of them experienced poor personal and social adjustments in the home, community and society at large.

Psychological, social and physical hazards are prominent at this period. For example, physical hazards as characteristics of old age are diseases, handicaps, malnutrition, dental disorders and sexual deprivation etc. Psychological hazards include among others, feelings of inferiority and inadequacy resulting from physical changes. Physical helplessness and meeting social obligations are difficult for many of them.

The developmental tasks of old age have been summarized by Havighurst as:

- i) Adjusting to decreasing physical strength and health – In this period, individuals are expected to adjust to weak in strength and health wise
- ii) Adjusting to retirement and reduced income – Old people are expected to adjust to economic pressures such as low income.
- iii) Adjusting to death of spouse – Old people find it difficult to adjust in terms of death of spouse At times the lost of dear one creates emptiness syndrome.
- iv) Establishing an explicit affiliation with members of one's age group – Old people must adjust to companionship in order to avoid loneliness.
- v) Establishing satisfactory physical living arrangements and
- vi) Adapting to social roles in a flexible manner - Old people must adjust to his social roles both in the home and community at large.

SELF ASSESSMENT EXERCISE 2

List and explain two developmental tasks of old age.

4.0 CONCLUSION

In unit 5, we have discussed the physical, social-psychological characteristics of early, middle and old age. The unit further explains developmental tasks of the subdivisions of adulthood. The unit also identified vocational adjustments of this periods and decrease in income especially at the old age.

5.0 SUMMARY

In this unit we have learnt that:

- i) Adulthood is the longest period of the life span
- ii) The subdivisions of Adulthood are Early adulthood, Middle adulthood (middle age) and Late adulthood or old age (senses).
- iii) The early, middle and late adulthood experienced certain predictable physical, physiological, psychological, social and vocational changes
- iv) The developmental tasks of these periods are meant to assist them adjust to tasks related to social, physical, mental, vocational, physiological changes that occur during the early adulthood, middle adulthood and adulthood later years.
- v) The methods of adjustments will assist them to tackle their hazards especially physical, biological, psychological and physiological hazards
- vi) As people moved from early adulthood to middle age and then to old age, there are usual decline in physical, physiological and psychological aspects of human development.

6.0 TUTOR-MARKED ASSIGNMENT

Describe physical, physiological and psychological changes that occur during:

- a. Early adulthood period
- b. Middle adulthood period and
- c. Late adulthood.

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