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3 (Sem-4/CBCS) ANT HC 2

2024

ANTHROPOLOGY

(Honours Core)

Paper : ANT-HC-4026

(Human Growth and Development)

Full Marks : 60

Time : Three hours

The figures in the margin indicate full marks for the questions.

1. Choose the correct answer : $1 \times 7 = 7$

(a) Which of the following is NOT a component of human physique ?

(i) Muscle mass

(ii) Bone density

(iii) Blood pressure

(iv) Body fat percentage

Contd.

(b) What is the primary focus of twin studies in human growth research?

- (i) Studying the growth patterns of plants
- (ii) Analyzing the effects of environment on growth
- (iii) Investigating genetic and environmental influences on growth
- (iv) Assessing the impact of diet on growth

(c) Malnutrition primarily refers to

- (i) overconsumption of nutrients
- (ii) consumption of unhealthy foods
- (iii) inadequate or imbalanced intake of nutrients
- (iv) excessive physical activity

(d) Growth hormone (GH) is primarily produced and secreted by which gland?

- (i) Thyroid gland
- (ii) Adrenal gland
- (iii) Pancreas
- (iv) Pituitary gland

(e) Which of the following phases is characterized by rapid growth in the human growth curve?

- (i) Infancy
- (ii) Childhood
- (iii) Adolescence
- (iv) Adulthood

(f) Population ageing refers to

- (i) a decrease in the total population size
- (ii) an increase in the proportion of older individuals within a population
- (iii) a decline in birth rates
- (iv) a rise in infant mortality rates

(g) The body mass index (BMI) is calculated by

- (i) dividing weight in kilograms by height in meters squared
- (ii) multiplying weight in kilograms by height in meters
- (iii) subtracting height in meters from weight in kilograms
- (iv) dividing weight in kilograms by height in centimetres

2. Give short answer of the following questions :

2×4=8

- (a) Define secular trend in growth study.
- (b) Mention different types of measurements in growth study.
- (c) What is Marasmus ?
- (d) Write *two* advantages of cross-sectional growth study.

3. Write short notes on : **(any three)** 5×3=15

- (a) Role of genetic factors in human growth
- (b) Growth curves
- (c) Obesity and overweight
- (d) Primary, secondary and tertiary ageing
- (e) Ethnic difference in human physique

4. Answer **any three** of the following :

10×3=30

(a) Define postnatal growth. Discuss different stages of postnatal growth in human. 1+9=10

(b) Discuss briefly about anthropological methods and techniques for nutritional status assessment.

(c) Define ageing. Explain different methods and techniques of studying age change in human. 2+8=10

(d) What is body composition ? Discuss the models and techniques of estimating body composition in man. 2+8=10

(e) Discuss different socio-cultural factors influencing pattern of growth and variation in human.

(f) Write an essay on applicability of growth studies.