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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 :

$$10 \times 3 = 30$$

(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.
