



বিদ্যাসাগর বিশ্ববিদ্যালয়
VIDYASAGAR UNIVERSITY

Question Paper

B.Sc. General Examinations 2020

(Under CBCS Pattern)

Semester - V

Subject: ANTHROPOLOGY

Paper: DSE1AT & DSE1AP

Full Marks : 60

Time : 3 Hours

Candidates are required to give their answer in their own words as far as practicable.

The figures in the margin indicate full marks.

HUMAN GROWTH AND DEVELOPMENT

Group - A

THEORY

Answer any *two* questions :

2×20=40

1. Write a note on health and disease. Give a detail account of biological and cultural factors that affect health and disease. 8+12
2. Briefly discuss about the concept of development. What is meant by LBW and discuss about its important determinants. 6+14

3. Define malnutrition. Discuss the bio-cultural aspects of human malnutrition. 4+16
4. Elucidate the phenomenon of human population variation in human growth. 20

Group - B

PRACTICAL

Answer any *one* question : 1×20=20

1. Human nutritional status can be evaluated using different methods. Discuss the advantages and limitations of these methods. 20
2. A man weighs 68.1 kgs. His height is 160.0 cm. Evaluate his nutritional status based on:
- (a) WHO (1995) Cut-off points
- (b) WHO (2001) Asia-Pacific Cut-off points
- Give all the calculations in details. 20
3. What is body composition? Describe two methods of assessing growth status. 20
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HUMAN GENETICS

Group - A

THEORY

Answer any *two* questions :

2×20=40

1. Briefly discuss the structure and function of human DNA. 20
2. Write briefly the transcription and translation processes. 20
3. Briefly write about any two of the following : 10+10
 - (a) Down's syndrome
 - (b) Turner's syndrome
 - (c) Klinefelter's syndrome
4. Discuss briefly the Pedigree and Twin study methods in biological anthropology. 10+10

Group - B

PRACTICAL

Answer any *one* question :

1×20=20

1. How to extract DNA from any human tissue. 20
 2. Write briefly about DNA Quantification and Aliquoting. 20
 3. Write the procedure of DNA sample preparation. What are the precautions to be taken to avoid contamination? 10+10
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ADVANCED HUMAN GENETICS

Group - A

THEORY

Answer any *two* questions :

2×20=40

1. Differentiate between DNA and RNA. Describe the double helix model of DNA. 4+16
2. With a suitable diagram describe the molecular structure of mitochondrial DNA. 20
3. With suitable pedigrees describe the inheritance pattern of one common X-linked recessive and one autosomal dominant trait. 10
4. What is FISH? Discuss the process of protein synthesis. 5+15

Group - B

PRACTICAL

Answer any *one* question :

1×20=20

1. Write a report on Karyotyping and banding. 20
 2. Write a report on PCR and electrophoresis. 20
 3. Write a report on ABO blood group inheritance pattern. 20
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ADVANCED FORENSIC ANTHROPOLOGY

Group - A

THEORY

Answer any *two* questions :

2×20=40

1. What is Forensic Anthropology? How you relate it with Forensic Science? Describe briefly about some applications of Forensic Anthropology in present community life. 5+5+10
2. Describe the different methods of taking palm and figure prints. 20
3. How to determine age and sex from a skeleton? 20
4. Write the history and development of dermatoglyphics in India. 20

Group - B

PRACTICAL

Answer any *one* question :

1×20=20

1. Write a project on paternity diagnosis with reference to ABO blood group system. 20
 2. Explain and write down a project report by using methods and techniques of utilization of palm print technology. 20
 3. Point out the identifying features of scapula and clavicle, Humerus, Radius, and Ulna. 20
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