

ANTA(HN)-02

West Bengal State University

B.A./B.Sc./B.Com. ( Honours, Major, General ) Examinations, 2015

PART - I

ANTHROPOLOGY — HONOURS

PAPER -II

Duration : 4 Hours ]

[ Full Marks : 100

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

*The figures in the margin indicate full marks.*

GROUP - A

1. Answer any *two* of the following questions within 800 - 1000 words each :

2 × 12 = 24

a) What is gametogenesis ? Describe the process of spermatogenesis with suitable diagram. Write in brief about the importance of gametogenesis.

2 + 8 + 2

b) Explain the social life of primates emphasizing their behavioural characteristics.

c) Describe in brief about different stages of protein synthesis with suitable illustrations.

d) What are the major adaptive features of human being in response to acute cold climate ? How do they differ from hot adaptation from the basic biological point of view ?

8 + 4

2. Answer any *two* of the following questions within 250 - 300 words each :

2 × 5 = 10

a) Write down the names of bones and sutures as viewed in *Norma frontalis* of human skull.

b) Elucidate the importance of meiosis as a source of variability.

c) Describe knuckle walking as a primate locomotion.

d) What are the major anatomical modifications of human skull due to assumption of erect posture ?

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[ Turn over

3. Answer any six of the following questions within 25 – 30 words each :

6 × 2 = 12

- a) What is heterodont ?
- b) What is tooth comb ?
- c) What is gene flow ?
- d) Define Dollo's rule.
- e) What is parallelism ?
- f) What is prehensility ?
- g) What is power grip ?
- h) What do you mean by F<sub>1</sub> generation ?
- i) Define sympatric species.
- j) What is auditory signal ?

4. Choose the correct option from each question :

4 × 1 = 4

- a) Which of the following primate species exhibit prehensile tail ?
  - i) Hylobates lar
  - ii) Presbytes entellus
  - iii) Aye Aye
  - iv) Pan paniscus.
- b) Which of the following is a human character ?
  - i) Opposable great toe
  - ii) Opposable thumb and great toe
  - iii) Opposable thumb
  - iv) None of these.
- c) Which of the following anatomical characters can be seen from *Norma lateralis* ?
  - i) Foramen magnum
  - ii) Palatal bone
  - iii) Nuchal line
  - iv) External auditory meatus.
- d) Which of the following long bones exhibit *linea aspera* ?
  - i) Tibia
  - ii) Fibula
  - iii) Humerus
  - iv) Femur.

**GROUP - B**

5. Answer any *two* of the following questions within 800 – 1000 words each :

2 × 12 = 24

- a) What is Great Ice Age ? Mention the main causes of Ice Age. Briefly discuss the climatic fluctuations of Pleistocene period. 3 + 3 + 6
- b) What is relative dating ? What are the different methods of relative dating used in the study of prehistoric archaeology ? 2 + 10
- c) What is Geological time scale ? Explain holocene period as a period of climatic stabilization. 6 + 6
- d) Differentiate between exploration and excavation. Explain the process of excavating a burial site. 8 + 4

6. Answer any *two* of the following questions within 250 – 300 words each :

2 × 5 = 10

- a) What is Three Age System ?
- b) What are the differences between tools and artefacts ?
- c) Describe the basic principles of dendrochronology.
- d) What is FUN estimation ?

7. Answer any *six* of the following questions within 25 – 30 words each :

6 × 2 = 12

- a) Give two differences between glaciation and pluviation ?
- b) What is snow line ?
- c) What is biome ?
- d) What is core tool ?
- e) What do you mean by industry ?
- f) What do you mean by half-life ?
- g) What is block-on-block technique ?
- h) What is moraine ?
- i) What is index fossil ?
- j) What is GIS ?

8. Choose the correct option from each question :

4 × 1 = 4

- a) Pleistocene is a/an
- |             |                            |
|-------------|----------------------------|
| i) era      | ii) epoch                  |
| iii) period | iv) stone tool technology. |
- b) The uppermost stratigraphy is the
- |                        |                    |
|------------------------|--------------------|
| i) oldest              | ii) youngest       |
| iii) both (i) and (ii) | iv) none of these. |
- c) Microlithic tools are found in
- |                        |                          |
|------------------------|--------------------------|
| i) Palaeolithic period | ii) Mesolithic period    |
| iii) Neolithic period  | iv) Chalcolithic period. |
- d) Bone tools are index tools of
- |                         |                    |
|-------------------------|--------------------|
| i) middle Palaeolithic  | ii) Mesolithic     |
| iii) upper Palaeolithic | iv) none of these. |

