

West Bengal State University

B.A./B.Sc./B.Com (Honours, Major, General) Examinations, 2013

Part - III

ANTHROPOLOGY — Honours

Paper - V

Duration : 4 Hours]

[Full Marks :

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

The figures in the margin indicate full marks.

Use separate booklets for Group A and group B.

GROUP - A

- I. Answer any three questions from the following in 800-1000 words each. 3 × 12 =
1. Discuss the different methods of studying human genetics. Mention in brief the difficulties in studying human genetics. 9.
 2. What is Karyotype ? Write in detail about numerical chromosomal aberrations with suitable examples. 3.
 3. Discuss autosomal recessive and X-linked recessive modes of inheritance with suitable examples. 6.
 4. What is Hardy-Weinberg equilibrium ? Calculate the allele frequency of the population from the data given below and find out whether the population is in equilibrium or not :
 MM - 40 ; MN - 67 ; NN - 23
 (Chi-square at 0.05 → p = 3.84; degree of freedom = 1) 4 + 6 =
 5. Define geographical race. Discuss UNESCO statement on race. 6 +
 6. What do you mean by growth development and maturation ? Discuss about the stages of foetal development with respect to trimesters. 3 +

II. Answer any *three* questions from the following in 250-300 words each. $3 \times 5 = 15$

7. Differentiate between sex-controlled and sex-limited traits.
8. What are essential macro-nutrients ?
9. What is meant by heterozygote advantage ?
10. Briefly discuss about water soluble vitamins with their deficiency diseases.
11. Define milestones in growth.
12. What is polygenic inheritance ?

III. Answer any *nine* of the following questions in 25-30 words each. $9 \times 2 = 18$

13. What is lethal gene ?
14. Define multiple allelism.
15. What is holandric inheritance ?
16. What is meant by adolescence growth spurt ?
17. What is G_6 PD deficiency ?
18. What is albinism ?
19. What is erythroblastosis foetalis ?
20. What is quantitative trait ?
21. Give examples of sex-limited and sex-controlled traits.
22. What is haptoglobin ?
23. What is micro race ?
24. What is undernutrition ?
25. What is an embryo ?
26. What is iso-chromosome ?

IV. Answer the following questions :

6 ×

27. Brachydactyly is an example of

- a) Autosomal recessive
- b) X-linked dominant
- c) Sex-limited
- d) Autosomal dominant.

28. Blood group *AB* is an example of

- a) Incomplete dominance
- b) Co-dominance
- c) Pleiotropy
- d) None of these.

29. Scurvy is caused by deficiency of

- a) Vitamin-A
- b) Vitamin-B
- c) Vitamin-C
- d) Vitamin-D.

30. Cri du chat syndrome is an example of

- a) Deletion
- b) Duplication
- c) Inversion
- d) Translocation.

31. Which is the name of the pigment responsible for skin colour ?

- a) Melanin
- b) Tannin
- c) Keratin
- d) Oxygen.

32. Stature is an example of

- a) single gene trait
- b) multifactorial trait
- c) polygenic trait
- d) all of these.

GROUP - B

- V. Answer any *one* from the following questions in 800-1000 words : $1 \times 12 = 12$
33. What is Neolithic revolution ? Discuss in brief about the salient features of Neolithic culture and justify whether it is revolution or not.
34. What is living Megalith ? Write in brief about different Megalithic burial types found in South India. $2 + 10$
- VI. Answer any *one* from the following questions in 250-300 words : $1 \times 5 = 5$
35. Write a short note on Burzahom.
36. Write a short note on Natufian culture.
- VII. Write any *three* from the following questions in 25-30 words each : $3 \times 2 = 6$
37. What is PGW culture ?
38. What is kitchen-midden culture ?
39. What is epipalaeolithic culture ?
40. What is NBPW ?
41. Write two salient features of Mesolithic culture.
- VIII. Answer the following : $2 \times 1 = 2$
42. Malwa culture belongs to
- | | |
|-----------------|------------------|
| a) Palaeolithic | b) Mesolithic |
| c) Neolithic | d) Chalcolithic. |
43. The father of Indian prehistory is
- | | |
|-----------------------|--------------------|
| a) Robert Bruce Foote | b) M. C. Burkitt |
| c) D. Sen | d) H. D. Sankalia. |