

West Bengal State University

B.A./B.Sc./B.Com. (Honours, Major, General) Examinations, 2012

PART-III

ANTHROPOLOGY – HONOURS

Paper- V

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.

Use two separate sheets for group A and group B.

GROUP – A

- I. Answer any *three* questions from the following in 800 – 1000 words each : $3 \times 12 = 36$
1. What do you mean by 'pedigree' ? Why is twin study method so important in human genetics ? 3 + 9
 2. Discuss in detail the autosomal dominant mode of inheritance along with suitable examples.
 3. Write in detail longitudinal, cross-sectional and mixed longitudinal methods of studying human growth and development.
 4. Define malnutrition. Write in detail over-and under-nutrition with suitable examples from human. 3 + 9
 5. Write in detail about structural chromosomal abberation with suitable examples.
 6. Define Hardy-Weinberg equilibrium. Calculate whether the population given below is under Hardy-Weinberg equilibrium or not :
MM = 22; MN = 48; NN = 30 4 + 8
- II. Answer any *three* questions from the following in 250 – 300 words each : $3 \times 5 = 15$
7. Briefly discuss Down's syndrome.
 8. Discuss briefly difficulties in studying human genetics.
 9. Define race and racism.
 10. Discuss briefly inheritance of ABO blood group.

11. Discuss briefly mitochondrial inheritance.
12. Discuss briefly multifactorial inheritance in man with suitable example.

III. Answer any *nine* of the following questions in 25 – 30 words each :

13. What is statistical method of study of Human genetics ?
14. What is Non-disjunction ?
15. What is sickle cell trait (ABS) ?
16. What is mutation ?
17. What is PTC taste ?
18. What is linkage ?
19. What is crossing over ?
20. What is lethal allele ?
21. What is migration ?
22. What are micronutrients ?
23. What is trisomy ?
24. What is translocation ?
25. What is a foetus ?
26. What is an embryo ?
27. What is genetic drift ?

IV. Answer the following questions :

28. Colour blindness is a /an

| | |
|------------------------------|-----------------------------|
| a) X-linked dominant trait | b) X-linked recessive trait |
| c) Autosomal recessive trait | d) Y-linked trait. |
29. Albinism is a / an

| | |
|-----------------------------|------------------------------|
| a) Autosomal dominant trait | b) Autosomal recessive trait |
| c) X-linked trait | d) Y-linked trait. |
30. Skin colour is inherited as a / an

| | |
|-----------------------------|------------------------------|
| a) Autosomal dominant trait | b) Autosomal recessive trait |
| c) Polygenic trait | d) Y-linked trait. |
31. Which type of chromosome is absent in man ?

| | |
|----------------|-------------------|
| a) Metacentric | b) Submetacentric |
| c) Acrocentric | d) Telocentric. |

32. Migration is also known as
- | | |
|---------------------|-------------------|
| a) gene flow | b) genetic drift |
| c) both (a) and (b) | d) none of these. |
33. Stature is an example of
- | | |
|-------------------------|-------------------|
| a) Single gene trait | b) Polygene trait |
| c) Multifactorial trait | d) All of these. |

GROUP - B

- V. Answer any *one* from the following questions in 800 - 1000 words : $1 \times 12 = 12$
34. Discuss Mesolithic culture of India with special emphasis on Langhnaj and Birbahanpur.
35. Discuss salient features of Chalcolithic culture of India with special emphasis on pottery.
- VI. Answer any *one* from the following questions in 250 - 300 words : $1 \times 5 = 5$
36. Write a short note on Daojali Hading.
37. Write a short note on black and red ware culture.
- VII. Answer any *three* from the following questions in 25 - 30 words each: $3 \times 2 = 6$
38. What is microlithic problem in India ?
39. What is grinding-polishing technology ?
40. What is nuclear zone of food production ?
41. What is Neolithic pottery ?
42. What is chalcolithic pottery ?
- VIII. Answer the following : $2 \times 1 = 2$
43. 'Man Makes Himself' was authored by
- | | |
|------------------|--------------------|
| a) D. Sen | b) R. J. Braidwood |
| c) M .C. Burhitt | d). None of these. |
44. Tekkalhota is an important site of
- | | |
|------------------------|------------------|
| a) Chalcolithic period | b) Iron age |
| c) Mesolithic period | d) None of them. |