

West Bengal State University  
B.A./B.Sc./B.Com. ( Honours, Major, General ) Examinations, 2014

PART - III

ANTHROPOLOGY — HONOURS

PAPER - V

Duration : 4 Hours

Maximum 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 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 = 36

1. What is the importance of studying human genetics in anthropology ?  
Discuss the pedigree method of studying human genetics with suitable example. 4 + 8
2. Discuss in detail the autosomal dominant and autosomal recessive modes of inheritance in human being along with suitable examples. 6 + 6
3. What is chromosomal aberration ? Write in detail about structural chromosomal aberration with suitable example. 3 + 9
4. What are the different applications of Hardy-Weinberg equilibrium ?  
Calculate the allele frequency of ABO blood group of the population from the data given below :  
Phenotype A : 10; B : 40; AB : 20; O : 30; 3 + 9

5. What are the biological bases of human population variation ? Write different approaches of classifying human population. Differentiate between primary race and secondary race. 3 + 6 + 3
6. What is the importance of studying human growth in anthropology ? Discuss about the different methods of studying human growth with their merits and demerits. 4 + 8

II. Answer any *three* questions from the following in 250-300 words each :

$3 \times 5 = 15$

7. What are the differences between twin and co-twin control methods ?
8. What are the difficulties in studying human genetics ?
9. What is polygenic inheritance ?
10. What is UNESCO statement on race ?
11. What is meant by adolescent growth spurt ?
12. What are the differences between continuous and discontinuous traits ?

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

13. What is a Mendelian population ?
14. Give two examples of X-linked recessive trait in human being.
15. What are meant by Linkage and Crossing over ?
16. What is point mutation ?
17. What is Karyotype ?
18. Give an example of sex controlled and sex-limited trait in human beings.
19. What is Geographical race ?
20. What is maturation ?
21. What is meant by ageing ?
22. What is a regulator gene ?
23. What is Racism ?
24. What is dosage compensation ?
25. What is holandric inheritance ?
26. What is reciprocal translocation ?

IV. Answer the following questions by choosing the correct option :  $6 \times 1 = 6$

27. Edward syndrome is caused for
- a) Trisomy 18                      b) Trisomy 13  
c) Trisomy 16                      d) Trisomy 21.
28. Caucasoid is a
- a) Local race                      b) Micro race  
c) Primary race                      d) Language group.
29. G6-PD is a
- a) white cell enzyme                      b) red cell enzyme  
c) serum protein                      d) none of these.
30. Which type of chromosome is absent in human being ?
- a) Metacentric                      b) Sub-metacentric  
c) Acrocentric                      d) Telocentric.
31. Dermatoglyphic ridge count is a
- a) qualitative trait                      b) quantitative trait  
c) both (a) & (b)                      d) none of these.
32. Eye colour is an example of
- a) single gene trait                      b) multifactorial trait  
c) polygenic trait                      d) none of these.

**GROUP - B**

V. Answer any *one* from the following questions in 800 to 1000 words :  $1 \times 12 = 12$

33. Discuss the post-pleistocene environmental changes and cultural adaptation of human beings. 12
34. What are the different characteristic features of chalcolithic culture of India ? Discuss in detail the features of Malwa and Jorwe pottery. 6 + 6

VI. Answer any *one* from the following questions in 250-300 words :  $1 \times 5 = 5$

35. Write a short note on salient features of Mesolithic culture of India.
36. Write in brief about living Megaliths of South India.

VII. Write any *three* from the following questions in 25-30 words each :  $3 \times 2 = 6$

37. What is meant by Fertile Crescent in respect of Neolithic culture.
38. What is grinding-polishing technique.
39. What is BRW ?
40. Write the names of two Neolithic sites in India.
41. What is Dolmen ?

VIII. Answer the following by choosing the correct answer :  $2 \times 1 = 2$

42. 'The Old Stone Age' was authored by
 

a) D. Sen	b) M. C. Burkitt
c) H. D. Sankalia	d) Robert Bruce Foote.
43. Sarai-Nahar-Rai is a
 

a) Palaeolithic site	b) Mesolithic site
c) Neolithic site	d) Chalcolithic site.