



WEST BENGAL STATE UNIVERSITY  
B.Sc. Honours PART-III Examination, 2016

ANTHROPOLOGY-HONOURS

Paper-ANTA-V

Time Allotted: 4 Hours

Full Marks: 100

*The figures in the margin indicate full marks. Candidates should answer in their own words and adhere to the word limit as practicable.*

*Use separate answer script for different Groups.*

Group-A

1. Answer any *three* questions from the following (800-1000 words): 12×3 = 36
- (a) What do you mean by autosomal dominant inheritance? Discuss in detail the autosomal dominant mode of inheritance in human being along with suitable examples. 4+8
- (b) What do you mean by pedigree? Why is twin study method important in human genetics? 3+9
- (c) What do you understand by growth, development and maturation? Briefly discuss the longitudinal and cross sectional methods of human growth study. (3×2)+6
- (d) Define Hardy-Weinberg equilibrium. Calculate the allele frequency of ABO blood group of the population from the following data where total number of population (n) = 100. 3+9
- Phenotype A = 15; B = 45; AB = 30; O = 10.
- (e) What is multiple allelism? Discuss the inheritance mechanism of multiple allelism with a suitable example. 2+10
- (f) Write briefly on structural chromosomal aberration with suitable examples. 12



2. Answer any *three* questions from the following (250-300 words): 5×3 = 15
- (a) Briefly discuss the UNESCO statement on human race.
  - (b) What do you mean by adolescent growth spurt?
  - (c) Write a short note on human polymorphism.
  - (d) Briefly discuss the genetic basis and clinical symptom of thalassemia.
  - (e) What are geographical and local races?
  - (f) What is essential micronutrient? What is its importance in nutrition?
3. Answer any *nine* questions from the following (25-30 words): 2×9 = 18
- (a) Define pleiotrophy.
  - (b) What is polyploidy?
  - (c) What is isochromosome?
  - (d) What is linkage?
  - (e) Define malnutrition.
  - (f) What is cline?
  - (g) What is lethal gene?
  - (h) What is dosage compensation?
  - (i) What is trisomy?
  - (j) What is albinism?
  - (k) What is prenatal growth?
  - (l) Define point mutation.
  - (m) What is genetic drift?
  - (n) What is obesity?



4. Answer the following questions by choosing correct options: 1×6 = 6
- (i) Color blindness is a/an
- (A) X-linked dominant trait                      (B) Autosomal recessive trait  
(C) X-linked recessive trait                    (D) Y-linked trait
- (ii) Which type of chromosome is absent in human?
- (A) metacentric                                    (B) telocentric  
(C) sub-metacentric                            (D) acrocentric
- (iii) Lateral pocket loop is a type of
- (A) loop    (B) whorl  
(C) arch    (D) composite pattern
- (iv) Eye color is an example of
- (A) single gene trait                              (B) multi factorial trait  
(C) polygenic trait                                (D) none of these
- (v) Migration causes
- (A) gene flow                                      (B) genetic drift  
(C) both (A) and (B)                            (D) none of these
- (vi) Which of the following traits does not follow Mendelian inheritance
- (A) Albinism                                        (B) Ichthiosis  
(C) Brachydactyly                                (D) Dermatoglyphics

*Use separate answer script for different Groups.*

**Group-B**

5. Answer any *one* question from the following (800-1000 words): 12×1 = 12
- (a) Discuss salient features of chalcolithic cultures of India. Write briefly on the pottery types found in Malwa and Ahar culture of India. 4+8
- (b) Write briefly about different Megalithic burial types found in India. 12

6. Answer any *one* question form the following (250-300 words): 5×1 = 5
- (a) Write short note on Microlithic problem in India.
  - (b) Write briefly on the Nuclear Zone of food production of Near East.
7. Answer any *three* questions from the following (25-30 words): 2×3 = 6
- (a) What is grinding-polishing technology?
  - (b) What is BRW?
  - (c) What do you mean by the term “Second Urbanization”?
  - (d) Why ‘Natufian’ is important?
  - (e) What is Kitchen-midden culture?
8. Answer the following by choosing the correct answer: 1×2 = 2
- (i) “Sarai-Nahar rai’ is a
    - (A) paleolithic
    - (B) mesolithic
    - (C) neolithic
    - (D) chalcolithic site
  - (ii) Jorwe culture is found in
    - (A) Western India
    - (B) Northen Deccan
    - (C) Central India
    - (D) Southern Deccan.