



WEST BENGAL STATE UNIVERSITY

B.Sc. Honours 3rd Semester Examination, 2022-23

ANTACOR07T-ANTHROPOLOGY (CC7)

Time Allotted: 2 Hours

Full Marks: 40

*The figures in the margin indicate full marks.
Candidates should answer in their own words and adhere to the word limit as practicable.
All symbols are of usual significance.*

NEW SYLLABUS

1. Answer any *two* questions from the following: (within 800-1000 words each) 10×2 = 20
 - (a) What is Race? Briefly explain the racial classification as stated by B. S. Guha in Indian population. 2+8
 - (b) Define mutation. Describe the role of mutation as a source of genetic variation. 2+8
 - (c) What is epidemiology? How different diseases are associated to human "Cultural Variation"? Briefly discuss the epidemiology of "Kuru" disease. 2+4+4
 - (d) What is demographic anthropology? What are the fundamental demographic measures and their significance in population dynamics? 2+8

2. Answer any *two* questions from the following: (within 300-400 words each) 5×2 = 10
 - (a) Write a short note on "UNESCO Statement of Race".
 - (b) "ABO blood group is a polymorphic marker"– Justify.
 - (c) Write a short note on "Sickle Cell Anaemia".
 - (d) What is population pyramid?

3. Answer any *five* questions from the following: (within 25-30 words each) 1×5 = 5
 - (a) What is meant by population in Anthropology?
 - (b) What is recombination?
 - (c) What is Satellite DNA?
 - (d) What is TFR?
 - (e) What is Cephalic Index?
 - (f) What is genetic drift?
 - (g) What is positive selection?
 - (h) Name two sources of demographic data.

4. Answer the following questions by choosing the correct option: 1×5 = 5
 - (a) Woolly hair is found among –
 - (i) Caucasoid
 - (ii) Mongoloid
 - (iii) Negroid
 - (iv) None of these

- (b) Swapping of genetic materials between non-sister chromatids occurring during –
(i) Polymorphism (ii) Multiple allelism
(iii) Crossing over (iv) None of these
- (c) Under which of the following classification we can find the ‘Turko-Iranian’ Type?
(i) B. S. Guha’s classification (ii) Risley’s classification
(iii) Sarkar’s classification (iv) Balakrisnan’s classification
- (d) Which of the following form the main structural constituent of hetero-chromatin?
(i) Satellite DNA (ii) mtDNA (iii) Centromere (iv) None of these
- (e) Who is known as father of Demography?
(i) John Snow (ii) William H. Foegen
(iii) John Graunt (iv) H. H. Risley

OLD SYLLABUS

1. Answer any *two* questions from the following: (within 800-1000 words each) $10 \times 2 = 20$
- (a) Define Race. Briefly explain the racial classification as stated by B. S. Guha in Indian population. $2+8$
- (b) What is mutation? Briefly discuss the different types of mutation. $2+8$
- (c) What is epidemiology? Briefly explain the bio-cultural factors that influence disease patterns. $2+8$
- (d) What is meant by demographic anthropology? What are the different sources of demographic data? $2+8$
2. Answer any *two* questions from the following: (within 300-400 words each) $5 \times 2 = 10$
- (a) Write a short note on “Hardy-Weinberg equilibrium”.
- (b) What is clinal distribution of traits?
- (c) Write a short note on “UNESCO Statement of Race”.
- (d) Differentiate between morbidity and mortality.
3. Answer any *five* questions from the following: (within 25-30 words each) $1 \times 5 = 5$
- (a) Give an example of multiple allele.
- (b) What is penetrance?
- (c) What is co-dominance?
- (d) Name one modifying gene.
- (e) What is crossing over?

- (f) What is variable expressivity?
- (g) What is health?
- (h) What is Total Fertility Rate?

4. Answer the following questions by choosing the correct option:

1×5 = 5

- (a) "The People of India" was written by
 - (i) Risley
 - (ii) Hooton
 - (iii) Mayr
 - (iv) Templeton
- (b) Which of the following is incorrect with respect to mutation?
 - (i) Sudden
 - (ii) Continuous
 - (iii) Change in Chromosomes and genes
 - (iv) Leads to variation in DNA.
- (c) Who defined race in an essentialist concept?
 - (i) Hooton
 - (ii) Mayr
 - (iii) Dobzhansky
 - (iv) Montagu
- (d) The father of modern epidemiology is
 - (i) John Snow
 - (ii) William H. Foege
 - (iii) Margaret Becklake
 - (iv) Jayaprakash Muliyil
- (e) The UNESCO declaration on Race and Racial Prejudice was stated in the year –
 - (i) 1978
 - (ii) 1979
 - (iii) 1980
 - (iv) 1977

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