

**2023****M. Sc.****4th Semester Examination****ANTHROPOLOGY****PAPER : ANT-401A & 401B***Full Marks : 50**Time : 2 hours**The figures in the right-hand margin indicate marks.**Candidates are required to give their answers  
in their own words as far as practicable.**Illustrate the answers wherever necessary.**Answer from **any one** Section.***SECTION—I****PAPER : ANT-401A****( POPULATION GENETICS )**Answer from **all** the Groups as directed.**GROUP—A**1. Answer **any four** questions from the following :

2×4=8

*(a) Define gene pool.*

{ 2 }

- (b) What is Mendelian population?
- (c) What is SNP?
- (d) What is homozygosity?
- (e) What is genetic admixture?
- (f) What are the full forms of VNTR and RFLP?

**GROUP—B**

2. Answer *any four* questions from the following :

4×4=16

- (a) Differentiate between bottleneck effect and founder effect.
- (b) Write the scope of population genetics.
- (c) Briefly discuss preferential mating among human.
- (d) Briefly discuss the concept of natural selection.
- (e) What do you mean by complete elimination against recessive homozygote?
- (f) Write the principles of genetic equilibrium.

( 3 )  
GROUP—C

3. Answer *any two* questions from the following :  
8×2=16

(a) In a town of 75000 residents, approximately one child in 6000 is born with sickle cell anemia, a disease that affects homozygous individual for the recessive allele(s). Suppose the population is in Hardy-Weinberg equilibrium :

(i) Calculate the frequency of the normal allele in the population. 2

(ii) How many individuals in the town are suffering from sickle cell anemia? 3

(iii) Calculate the number of carriers in the population. 3

(b) What is inbreeding coefficient? Describe the types of inbreeding and the biological consequences of inbreeding. 2+6

(c) Write briefly about the role of social divisions and hierarchy in genetic isolation. 8

(d) Briefly discuss balanced and transient polymorphism with suitable example. 8

[ Internal Assessment : 10 Marks ]

( 4 )  
SECTION—II  
ANT-401B  
( ECONOMIC AND POLITICAL  
ANTHROPOLOGY )

Answer from **all** the Groups as directed.

**GROUP—A**

1. Answer *any* **four** questions from the following :

2×4=8

- (a) What is the subject matter of Economic Anthropology?
- (b) What are the features of the political system of tribes?
- (c) What is band society?
- (d) What is meant by customary law?
- (e) What is Neo-Marxist approach?
- (f) What is meant by totalitarianism?

( 5 )  
GROUP—B

2. Answer *any four* questions from the following :  
4×4=16

- (a) Differentiate between formalist and substantivist approach followed in Economic Anthropology.
- (b) What is meant by cultural materialism?
- (c) Mention the economic classification of Indian tribes with suitable examples.
- (d) Differentiate between the chiefdom and state form of political organizations.
- (e) Briefly describe the features of tribal economy.
- (f) Differentiate between the traditional and statutory forms of Government.

GROUP—C

3. Answer *any two* questions from the following :  
8×2=16

- (a) Write a note on the mutual place of interest of Economics and Anthropology.

( 6 )

- (b) Describe the different forms of Government.
- (c) Discuss in detail, the different modes of distribution observed in tribal society.
- (d) Write a note on political symbolism.

**[ Internal Assessment : 10 Marks ]**

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