Total number of printed pages-2

FYUGP/Sem-4/AN-CE1

2026
(Regular)
Anthropology (Core)
Paper Code : AN-CE-4214
Paper Name : Introduction To Biological Anthropology

Time : 2 hours ***Full Marks : 45***

The figures in the margin indicate full marks for the questions.

1. Answer the following questions : 1×4=4
   a) Who proposed the mutation theory of evolution ?
   b) Name a scientist who contributed to the modern Synthetic Theory of evolution.
   c) Chromosomes are most easily measured during which phase of cell division ?
   d) Who proposed the double - helical structure of DNA ?
2. Answer the following questions : 2×3=6
   a) What is Mendelian population ?
   b) What is the bottleneck effect ?
   c) What is cell cycle ?
3. Answer ***any three*** of the following questions : 5×3=15
   a) Write the differences between Lamarckism and Darwinism.
   b) What is mutation ? What are the different types and causes of mutation ? 1+2+2=5
   c) What are chromosomes ? Describe the difference types of chromosomes depending on the position of centromere. 1+4=5

Contd...

d) Describe the fundamental priciples of Darwin's theory of natural selection.

e) Give any three differences between mitosis and meiosis.

f) Give in brief the Punctuated Equilibrium Theory.

4. Answer ***any two*** of the following questions : 10×2=20

a) Discuss how acquired characters are inherited in the light of Lamarckism.

b) Discuss the different stages of DNA replication.

c) Explain Mendel's Laws of Heredity.

d) Discuss the various mechanisms of evolution.

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