

ZOOLOGY (Paper II)

Time Allowed : Three Hours

Maximum Marks : 300

QUESTION PAPER SPECIFIC INSTRUCTIONS

(Please read each of the following instructions carefully before attempting questions)

There are EIGHT questions divided in two Sections.

Candidate has to attempt FIVE questions in all.

Question Nos. 1 and 5 are compulsory and out of the remaining, any THREE are to be attempted choosing at least ONE question from each Section.

The number of marks carried by a question/part is indicated against it.

Wherever any assumptions are made for answering a question, they must be clearly indicated.

Word limit in questions, wherever specified, should be adhered to.

SECTION 'A'

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|----|---|----------------|
| 1. | Different between any three of the following: | 20×3=60 |
| | (a) Coincidence and interference | |
| | (b) Mitotic and Meiotic Prophase | |
| | (c) Substantive and polymorphic variation | |
| | (d) Genera and Species | |
| 2. | Describe transcription in pro- and eukaryotes. | 60 |
| 3. | Write explanatory notes on the following: | 30×2=60 |
| | (a) Mobile Genetic Segment | |
| | (b) Tryptophan Opera | |
| 4. | Discuss Hardy-Weinberg Law and mention its utility. | 60 |

SECTION 'B'

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| 5. | Explain the importance of any three of the following: | 20×3=60 |
| | (a) Structure and function of cyclic AMP | |
| | (b) Mechanism of Hormone action | |
| | (c) Regeneration | |
| | (d) Teratogenesis | |
| 6. | Discuss active and passive immunity. Mention autoimmune disorders. | 60 |
| 7. | Describe programmed cell death. | 60 |
| 8. | Discuss the role of liver and pancreas in digestion? | 60 |