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| <b>QP Code: D145443</b>                                                                  |                                                                                                               | <b>Total Pages:1</b> | <b>Name:</b>             |
|                                                                                          |                                                                                                               |                      | <b>Register No.</b>      |
| <b>SECOND SEMESTER FIVE YEAR INTEGRATED P.G. – FYIP – REGULAR EXAMINATION APRIL 2026</b> |                                                                                                               |                      |                          |
| <b>ZOOLOGY</b>                                                                           |                                                                                                               |                      |                          |
| <b>ZOO2ID106(3) BIOLOGY FOR COMPETITIVE EXAMS</b>                                        |                                                                                                               |                      |                          |
| <b>2025 Admission</b>                                                                    |                                                                                                               |                      |                          |
| <b>Maximum Time: 1.5 Hours</b>                                                           |                                                                                                               |                      | <b>Maximum Marks: 50</b> |
| <b>Section A</b>                                                                         |                                                                                                               |                      |                          |
| <b>All Questions can be answered. Each Question carries 2 marks (Ceiling: 16 Marks)</b>  |                                                                                                               |                      |                          |
| 1                                                                                        | What are the functions of mitochondria?                                                                       |                      |                          |
| 2                                                                                        | Explain the significance of meiosis.                                                                          |                      |                          |
| 3                                                                                        | Explain biogeochemical cycles, providing examples.                                                            |                      |                          |
| 4                                                                                        | Comment on the Wildlife Protection Act (1972).                                                                |                      |                          |
| 5                                                                                        | What are living fossils? Give an example.                                                                     |                      |                          |
| 6                                                                                        | List four important functions of the human nervous system.                                                    |                      |                          |
| 7                                                                                        | Name the types of leucocytes present in human blood.                                                          |                      |                          |
| 8                                                                                        | What are the hormones secreted by the pancreas? Write their functions.                                        |                      |                          |
| 9                                                                                        | What are endemic diseases? Provide an example.                                                                |                      |                          |
| 10                                                                                       | What are tumor suppressor genes?                                                                              |                      |                          |
| <b>Section B</b>                                                                         |                                                                                                               |                      |                          |
| <b>All Questions can be answered. Each Question carries 6 marks (Ceiling: 24 Marks)</b>  |                                                                                                               |                      |                          |
| 11                                                                                       | Who discovered the ribosomes and what are their functions?                                                    |                      |                          |
| 12                                                                                       | Describe the changes that occur during the different phases of the cell cycle.                                |                      |                          |
| 13                                                                                       | Describe the J-shaped and S-shaped population growth curves and explain under what conditions each occurs.    |                      |                          |
| 14                                                                                       | Explain the process of gas exchange in the lungs and tissues.                                                 |                      |                          |
| 15                                                                                       | Discuss the causes, prevention and treatment of gonorrhea and syphilis.                                       |                      |                          |
| <b>Section C</b>                                                                         |                                                                                                               |                      |                          |
| <b>Answer any ONE. Each Question carries 10 marks (1x10=10 Marks)</b>                    |                                                                                                               |                      |                          |
| 16                                                                                       | What are the main threats to biodiversity? Discuss the role of human activities in the extinction of species. |                      |                          |
| 17                                                                                       | Name the hormones secreted by the pituitary gland and describe their functions in the human body.             |                      |                          |