

# **PSG COLLEGE OF ARTS & SCIENCE (AUTONOMOUS)**

**BSc DEGREE EXAMINATION DECEMBER 2025**  
**(Fifth Semester)**

## Branch – ZOOLOGY

## **COMPUTER APPLICATIONS IN BIOLOGY**

Time: Three Hours

Maximum: 75 Marks

**SECTION-A (10 Marks)**

Answer **ALL** questions

**ALL** questions carry **EQUAL** marks

$$(10 \times 1 = 10)$$

### **SECTION - B (35 Marks)**

### **Answer ALL questions**

**ALL** questions carry **EQUAL** Marks

$$(5 \times 7 = 35)$$

| Module No. | Question No. | Question                                      | K Level | CO  |
|------------|--------------|---|---------|-----|
| 1          | 11.a.        | Illustrate the basic structure of a computer. | K3      | CO3 |

**Cont...**

|   |       |   |    |     |
|---|-------|---|----|-----|
|   |       | (OR)  |    |     |
|   | 11.b. | Develop a detailed description of the key features and functions of Microsoft word.             |    |     |
| 2 | 12.a. | Classify the main features and functions of Microsoft Excel.                                    | K4 | CO4 |
|   |       | (OR)  |    |     |
| 3 | 12.b. | List out the different types of charts available in MS-Excel and Explain.                       | K3 | CO3 |
|   | 13.a. | Build a detailed explanation of how to design and format slide in MS-PowerPoint.                |    |     |
| 4 |       | (OR)  | K4 | CO4 |
|   | 13.b. | Organize your ideas to explain the steps involved in creating and managing tables in MS-Access. |    |     |
| 5 | 14.a. | Classify the tools used in Photoshop for resizing, color adjustments, and cropping images.      | K5 | CO5 |
|   |       | (OR)  |    |     |
| 5 | 14.b. | List out the different types of web browsers and explain their unique features.                 |    |     |
|   | 15.a. | Explain about DDBJ in storing and providing access to nucleotide sequence data.                 |    |     |
|   |       | (OR)  | K5 | CO5 |
|   | 15.b. | Determine how to retrieve nucleotide and protein sequence from NCBI.                            |    |     |

**SECTION -C (30 Marks)**

Answer ANY THREE questions

ALL questions carry EQUAL Marks (3 × 10 = 30)

| Module No. | Question No. | Question  | K Level | CO  |
|------------|--------------|---|---------|-----|
| 1          | 16           | Analyze the different input and output storage devices and their functions.   | K4      | CO4 |
| 2          | 17           | Determine the steps to perform basic statistical analysis in MS Excel, including calculating mean, median, mode, standard deviation and create chart to represent data. | K4      | CO4 |
| 3          | 18           | Examine the different slide layouts and animation features in PowerPoint.   | K4      | CO4 |
| 4          | 19           | Explain in detail about the web search engines.   | K5      | CO5 |
| 5          | 20           | Compare NCBI, EMBL and BLAST in terms of their functions, features and applications.  | K5      | CO5 |