

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

**BSc DEGREE EXAMINATION DECEMBER 2024  
(First Semester)**

Branch - **ZOOLOGY**

**PLANT BIOLOGY – I**

Time: Three Hours

Maximum: 75 Marks

**SECTION-A (10 Marks)**

Answer **ALL** questions

**ALL questions carry EQUAL marks** (10 × 1 = 10)

| Module No. | Question No. | Question                                                                                                                                                                                             | K Level | CO  |
|------------|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|-----|
| 1          | 1            | A member of plant lacks roots, stem and leaves<br>(a) Fungi (b)Algae (c)Lichens (d)Bryophytes                                                                                                        | K1      | CO1 |
|            | 2            | Splitting of a fungi somatic cell into two daughter cells<br>(a) Fragment (b)Fission (c)Conidia (d)Budding                                                                                           | K2      | CO2 |
| 2          | 3            | Root knots are caused by the below mentioned pathogens<br>(a) Bacteria (b)Mollicutes (c)Nematodes (d)Vinses                                                                                          | K1      | CO3 |
|            | 4            | How many species of Cycas are described so far<br>(a) 20species (b)30 species<br>(c)40 species (d)50species                                                                                          | K2      | CO2 |
| 3          | 5            | In Bentham and Hooker's system of classification, main emphasis has been given to<br>(a) Embryological characters<br>(b)Reproductive characters<br>(c) Vegetative characters<br>(d) Both (a) and (b) | K1      | CO1 |
|            | 6            | <i>Annona squamosa</i> belongs to the family<br>(a) Brassica ceae (b)Annonaceae<br>(c) Rutaceae (d)Rubiaceae                                                                                         | K2      | CO3 |
| 4          | 7            | Poaceae is commonly known as -----<br>(a) Spurge family (b)Orange family<br>(c) Oleander family (d)Grass family                                                                                      | K1      | CO2 |
|            | 8            | Arecamut belongs to the family<br>(a) Arecaceae (b) Annonaceae<br>(c) Rutaceae (d) Euphorbioceae                                                                                                     | K2      | CO3 |
| 5          | 9            | What are the products of light independent reactions of Photosynthesis<br>(a) Oxygen, ATP and NADP<br>(b)Oxygn, ATP and reduced oxygen<br>(c) Water. ATP and NADP<br>(d)Water, ATP and reduced NADP  | K1      | CO2 |
|            | 10           | A hormone used for inducing morphogenesis in plants tissue culture is called<br>(a) Absciscic acid (b)Gibberlins<br>(c) Cytokinins (d)Ethylene                                                       | K2      | CO3 |

Cont...

**SECTION - B (35 Marks)**Answer **ALL** questions**ALL** questions carry **EQUAL** Marks (5 × 7 = 35)

ALL questions carry EQUAL Marks (5 × 7 = 35)

| Module No. | Question No. | Question                                                  | K Level | CO  |
|------------|--------------|-----------------------------------------------------------|---------|-----|
| 1          | 11.a.        | Explain the salient features of Algae.                    | K2      | CO1 |
|            | (OR)         |                                                           |         |     |
|            | 11.b.        | Describe the general characters of fungi.                 |         |     |
| 2          | 12.a.        | Write a note on general symptoms of plant diseases.       | K3      | Co2 |
|            | (OR)         |                                                           |         |     |
|            | 12.b.        | Write about the symptoms seen in Tikka leaf spot disease. |         |     |
| 3          | 13.a.        | Write the economic importance of Rutaceae.                | K4      | CO3 |
|            | (OR)         |                                                           |         |     |
|            | 13.b.        | Write on the economic uses of Caesalpiniaceae.            |         |     |
| 4          | 14.a.        | Write characteristic features of Poaceae.                 | K5      | CO4 |
|            | (OR)         |                                                           |         |     |
|            | 14.b.        | Write the distinguishing characters of Euphorbiaceae.     |         |     |
| 5          | 15.a.        | Write a note on Calvin cycle.                             | K6      | CO5 |
|            | (OR)         |                                                           |         |     |
|            | 15.b.        | Write about Aerobic respiration of plants.                |         |     |

**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           | Discuss In Detail about Five kingdom of biological system.                | K2      | CO1 |
| 2          | 17           | Describe plant diseases and its impact.                                   | K3      | Co2 |
| 3          | 18           | Write a detailed note on Bentham and Hookers classification about plants. | K4      | CO3 |
| 4          | 19           | Elaborate on the economic uses of Asclepiadaceae family.                  | K3      | Co2 |
| 5          | 20           | Write a note on Plant growth regulators.                                  | K5      | CO4 |