

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)
BSc DEGREE EXAMINATION DECEMBER 2018
(First Semester)

Branch - ZOOLOGY

PLANT BIOLOGY -1

Time: Three Hours

Maximum: 75 Marks

SECTION-A (10 Marks!)

Answer ALL questions

ALL questions carry EQUAL marks

(10x1 = 10)

- 1 Name the habit of thallus in Volvox.
(i) dendroid (ii) unicellular
(iii) filament (iv) coenobium
- 2 Choose the class of Albugo,
(i) Oomycetes (ii) Ascomycetes
(iii) myxomycetes (iv) basidiomycetes
- 3 Find the casual organism of wheat rust from the following.
(i) Cercospra (ii) Puccinia
(iii) Fusarium (iv) Colletotrichum
- 4 Which one of the following is known as 'Maiden hair-fern'?
(i) Lycopodium (ii) Isoetes
(iii) Adiantum (iv) Marsilea
- 5 Identify the plant source of 'Vasaka'.
(i) Justicia adathoda (ii) Vitex negundo
(iii) Phyllanthus amarus (iv) Alium cepa
- 6 What is the major active principle present in Asparagus racemosus?
(i) Protein (ii) Carbohydrate
(iii) Saponin (iv) Oil
- 7 Cruciferous vegetables are vegetables of the family.
(i) Rutaceae (ii) Brassicaceae
(iii) Rubiaceae (iv) Paaceae
- 8 Identify the plant which belongs to the family Euphorbiaceae.
(i) Acacia curvata (ii) Cassia alata
(iii) Pisum sativum (iv) Ricinus Communis
- 9 The bract is large, showy and colourful in plants belonging to the family,
(i) Poaceae (ii) Acanthaceae
(iii) Rutaceae (iv) Annonaceae <
- 10 Identify the monocotyledonous family from the following
(i) leguminosae (ii) Rosaceae
(iii) Poaceae (iv) Rubiaceae

SECTION - B (35 Marks)

Answer ALL Questions

ALL Questions Carry EQUAL Marks (5 x 7 = 35)

- 11 a Bring out the salient features of Oscillatoria and brief its movement mechanism.

- 12 a Explain the bacterial blight of paddy with its control measures.
OR
b Describe the structure of female cone of Cycas.
- 13 a Narrate the role of plants as organic pesticides.
OR
b Compare the medicinal a properties and acture principles of Phyllanthus amarus and Vitex negundo.
- 14 a Give an outline of Bentham and Hooker's classification of angiosperins.
OR
b Describe the characteristic features of the family Rutaceae with suitable sketches.
- 15 a Bring out the salient features of the family Asclepiadaceae.
OR
b Explain the floral character of Arecaceae.

SECTION - C (30 Marks)

Answer any **THREE** Questions

ALL Questions Carry **EQUAL** Marks (3 x 10 = 30)

- 16 Discuss the vegetative structure and methods of reproduction in Volvox.
- 17 Describe the symptom, nature of casual organism, disease cycle and control of tikka leaf spot.
- 18 Identify the medicinal plants used in pharmaceutical industries, cosmetics and repellants, and mention their active principles.
- 19 Enumerate the characteristic features of the family Annonaceae. Add a note on its economic uses.
- 20 Summarize the vegetative and the floral characteristics of the family Rubiaceae.

Z-Z-Z

END