

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

BSc DEGREE EXAMINATION MAY 2019
(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 x 1 = 10)

- 1 Oscillatoria belongs to the class
(i) Phaeophyceae (ii) Chlorophyceae
(iii) Rhodophyceae (iv) Cyanophyceae
- 2 Among the following which belongs to Ascomycota?
(i) Albugo (ii) Agaricus
(iii) Aspergillus (iv) Hucor
- 3 Find the causal organism of blight of paddy.
(i) Xanthomonas cryzae (ii) Fusarium oxysporum
(iii) Xanthomonas citri (iv) Fusarium solani
- 4 The corolloid roots are special feature of
(i) Pinus (ii) Cycas
(iii) Dryopteris (iv) Lycopodium
- 5 Choose the family of which Phyllanthus amarus belongs to
(i) Euphorbiaceae (ii) Rutaceae
(iii) Malvaceae (iv) Rubiaceae
- 6 Identify the plant which has anti-inflammatory, antioxidant, insecticidal and pesticidal properties
(i) Pisum Sativum (ii) Oryza Sativa
(iii) Vitex Negundo (iv) Avena Sativa
- 7 Bentham and Hooker's classification is based on
(i) natural system (ii) artificial system
(iii) phylogenetic (iv) numerical
- 8 Identify the family of flowering plants having pods
(i) Annonaceae (ii) Leguminosae
(iii) Rutaceae (iv) Euphorbiaceae
- 9 The plant Coffea Arabica belongs to the family
(i) Malvaceae (ii) Mimosae
(iii) Rubiaceae (iv) Apiaceae
- 10 Betel nut tree belongs to the family
(i) Poaceae (ii) Rubiaceae
(iii) Rubiaceae (iv) Arecaceae

SECTION - B (35 Marks)

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

- 11 a Give the structure of thallus of volvox.
OR
b Describe the asexual reproduction in Aspergillus.
- 12 a Write short notes on rust of wheat.
OR
b Explain the external morphology of Adiantum.
- 13 a Brief the role of medicinal plants as cosmetics.
OR
b State how certain plants act as repellants.
- 14 a Sketch out the characteristic features of Annonaceae.
OR
b Summarize the economic uses of leguminose.
- 15 a Describe the characteristics of the family Acanthaceae.
OR
b Narrate the salient features and economic uses of the family Poaceae.

SECTION - C (30 Marks)

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

- 16 Give the salient features of the structure and life cycle of Dictyota.
- 17 Highlight the gametophytic thallus of Anthoceros and explain its common methods of vegetative reproduction.
- 18 Summarize the active principles in any four plants you have studied. Add a note on the identifying feature of the active principle.
- 19 Bring out the salient features of the family Rutaceae. And mention its economic uses.
- 20 Enumerate the vegetative and floral characters of the plants belonging to the family Asclepiadaceae.