

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

MSc DEGREE EXAMINATION DECEMBER 2018
(First Semester)

Branch-BOTANY

PLANT DIVERSITY-II

Time: Three Hours

Maximum: 75 Marks

SECTION-A (10 Marks!)

Answer ALL questions

ALL questions carry EQUAL marks

(10 x 1 = 10)

- 1 Syngonium is present in
(i) Psilotum (ii) Lycopodium
(iii) Sellaginella (iv) all the above
- 2 The development of an archegonial initial into the embryo is known as
(i) apocarpus (ii) double fertilization
(iii) aopgamy (iv) parthinocarpy
- 3 Special spore bearing structure in Marselia _____ .
(i) conidia (ii) cone
(iii) sporocarp (iv) hetorangium
- 4 Zimmermann proposed _____
(i) cell theory (ii) meristem theory
(iii) apical theory (iv) telome theory
- 5 A plant having naked ovules and seeds are called ____ .
(i) pteridophytes (ii) gymnosperms
(iii) cryptogermes (iv) none of the above
- 6 _____ is an example for Bennettitales.
(i) Gnetum (ii) Williamsonia
(iii) Lyginopteris (iv) Lagenostoma
- 7 Which one of the algae is associated with coralloid root?
(i) Azolla (ii) Ulva
(iii) Chara (iv) Anabaena
- 8 Needle leaf is present in
(i) pinus (ii) cycas
(iii) podocarpus (iv) cupresses
- 9 Mesozoic era is considered between the age of
(i) 1-20 million years (ii) 200-500 million years
(iii) 35 - 190 million years (iv) 500 - 4000 million years
- 10 The father of Paleobotany is
(i) Kaspar Maria Von Sternberg (ii) Charles Darwin
(iii) Alexander Fleming (iv) Robert Hooke

SECTION - B (35 Marks)

Answer ALL Questions

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

- 11 a Analyse the general characters of Pteridophytes.

- 13 a Outline the classification of Gymnosperms by Sporne (1965).
OR '
b Discuss the salient features of Pteridospermales.
- 14 a Describe the male gametophyte in Gnetum.
OR
b Enumerate the economic importance of Gymnosperms.
- 15 a Mention the various methods of determining the geological age of fossils.
OR
b Briefly describe the various types of fossils.

SECTION - C (30 Marks!

Answer any **THREE** Questions

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

- 16 Narrate the morphology, anatomy and reproduction of Equisetales.
- 17 Analyse the Heterospory and seed habit in pteridophytes.
- 18 Give an account on male and female cone origin in Gymnosperms.
- 19 Explain the development of female gametophyte in Gnetum.
- 20 Give an elaborate account on Geological time scale. «.

Z-Z-Z

END