

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

MSc DEGREE EXAMINATION MAY 2019
(First Semester)

Branch - BOTANY

PLANT DIVERSITY - II

Time: Three Hours

Maximum: 75 Marks

SECTION-A (10 Marks)

Answer ALL questions

ALL questions carry EQI JAL marks (10 x 1 r 10)

- 1 Ferns belong to _____.
(i) Psilotales (ii) Lycopodiales
(iii) Equisitales (iv) Polypodiphytes
- 2 The antheridia mature before the archegonia in _____.
(i) Dioecious (ii) Monocious
(iii) Protandrous (iv) Prtogynous
- 3 Azolla belong to _____.
(i) Marsileales (ii) Salvinales
(iii) Filicales (iv) Ceratopteris
- 4 The Haig-Westoby model explains
(i) Heterosporv (ii) Stelar
(iii) Homosporv (iv) Megaspores
- 5 Wood like structures and rudimentary flowers are characteristic of _____.
(i) Pentoxylales (ii) Bennetittales
(iii) Piniade (iv) Pteridospermales
- 6 _____ are extinct Mesozoic plants found in Jurassic period.
(i) Pentoxylales (ii) Bennetittales
(iii) Pinidae (iv) Pteridospermales
- 7 _____ in association with BGA produce a neurotoxin called BMAA and cause neurological disorders in human.
(i) Coniferales (ii) Cycadales
(iii) Epehdrales (iv) Gnetales
- 8 Sporne classification (1965) of Coniferales include _____ genera.
(i) 32 (ii) 40
(iii) 53 (iv) 42
- 9 _____ provide tine detail of the cell anatomy of the plant tissue.
(i) Fusain (ii) Adpressions
(iii) Pithcasts (iv) Petrifactions
- 10 International code of Nomenclature for algae, fungi and plants is the latest in fossil taxonomy introduced in
(i) 2012 (ii) 2011
(iii) 2005 (iv) 1965

Cont...

SECTION - B (35 Marks)

Answer **ALL** Questions

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

- 11 a Analyse the general characters of Pteridophytes.
OR
b Discuss the salient features of Psilotales.
- 12 a Enumerate the characters of Salvinia.
OR
b Bring out the economic importance of pteridophytes.
- 13 a Outline the classification of Gymnosperms by Sporne (1965).
OR
b Discuss the salient features of Pteridospermales.
- 14 a Briefly describe the reproduction of Pinus.
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 concepts of paleobotany.

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 Elucidate the stellar variation in pteridophytes with neat sketches.
- 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 Age determination and methods of study of fossils.

Z-Z-Z

END