

N.B:1. All questions are compulsory.

2. Figures to the right indicate full marks.

3. Draw neat and labelled diagrams wherever necessary.

Q.1 A) Choose the **correct option** from the following:

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- a. _____ is used in production of Wine, beer, rum and whisky.
i) Yeast ii) Morcella iii) Rhizopus iv) Aspergillus
- b. The study of fungus is known as _____.
i) mycology ii) phycology iii) anatomy iv) physiology
- c. The cytoplasm of male and female sex organ fuse with each other, the process is called _____.
i) ascogamy ii) syngamy iii) zoogamy iv) plasmogamy
- d. _____ commonly known as morel or black mushroom.
i) *Morchella* ii) *Agaricus* iii) *Vaucheria* iv) none of the above
- e. *Selaginella* is _____.
i) homosporous ii) hetreosporous iii) zoosporous iv) all of the above
- f. The inner wall of *selaginella* megaspore is called as _____.
i) exine ii) intine iii) nexine iv) none of the above
- g. The first land masses were formed by _____.
i) igneous rocks ii) sedimentary iii) metamorphic iv) none of the above
- h. _____ is the best but perhaps rarest type of fossil.
i) Petrification ii) Compression iii) Impression iv) Mummified
- i. _____ is a resinous excretions of certain fossil conifers which flowed due to injuries caused by boring insects or decaying branches.
i) Ambers ii) Gums iii) Varnish iv) Lacquers
- j. Chamberlain divide the group Gymnosperms into _____ classes.
i) three ii) two iii) five iv) four

Q.1 B) Answer the following in **one sentence**:

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- a) Define Mycology.
- b) Causal organism of Powdery Mildew.
- c) Define Paleobotany.
- d) What is chemotaxis?
- e) Meaning of term Gymnosperms.

- Q.2 Answer any two from the following: 20
- a) Give a detailed account on economic importance of Lichens.
 - b) Elaborate on the disease cycle of late blight of potato.
 - c) Giving reasons give systematic position of *Xylaria*.
 - d) Discuss general characters of Ascomyceteae.
- Q.3 Answer any two from the following: 20
- a) What are the salient features of Psilophyta?
 - b) Write a note on: Petrification and Incrustation.
 - c) Give the systematic position of *Rhynia*.
 - d) With neat and labeled diagram explain T.S. of root of *Selaginella*.
- Q.4 Answer any two from the following: 20
- a) Elaborate on the salient features of Coniferophytes.
 - b) Write a note on the T.S. of Young stem of *Pinus*.
 - c) Describe T.S of leaf of *Cordaitea*.
 - d) Discuss the economic importance of Coniferophytes.
- Q.5 Write Short note on (any four): 20
- a) Ultra structure of haustorium as observed in *Erysiphe*.
 - b) Ascomycetes in Industry
 - c) Impression type of Fossil
 - d) Stele observed in *Selaginella*.
 - e) Pollination seen in *Pinus*.
 - f) Seed of *Cordaitea*.