2316

30 a a

Class – M.Sc-I (Botany) Sem.II

Subject – BOT C-522

Parer – Diversity & Biology of Gymno-

Time Allowed: 3 Hours

Maximum Marks: 50

SECTION-A

sperms

NOTE: Attempi all the parts. Each part carries 1 mark.

- 1. (a) Manoxylic & Pycnoxylic wood
 - (b) Define Geological time scale
 - (c) Zoodogamous
 - (d) Pollination drop
 - (e) Name two extinct Gymnesperms
 - (f) Female reproductive organs in Glosslopteris
 - (g) Lithology
 - (h) Syndetochelic Stomata

 $(1 \times 8 = 8)$

SECTION-B

Note: Attempt any 7 questions. Each question carries 3 marks.

- 2. Give a brief account on the cytology of Gymnosperins.
- 3. Write an illustrated account on Pentoxylales. Discuss their affinities with other groups of gymnosperms.
- 4. Write short note on:
 - (a) Glossopteris (b) Economic importance of conifers
- Write short note on evolution of pollination mechanism of gymnosperms.
- What is biostratigraphy? Discuss various categories of biostratigraphy.

30/2

1

- www.a2zpapers.com
 7. Enumerate differences between Taxales and Ephedrales.
 - 8. Briefly explain the distribution of Gymnosperms in India.
 - Differentiate between female gametophyte of Cycas and Pinus.
 - 10. Differentiate between aneurophytales & eronopteridales.
 - 11. Write a note on (a) vegetative structures of Welwitschia (b) reproductive structures of Ginkgo (7x3=21)

SECTION-C

Note: Attempt any Three questions. Each question carries 7 mars.

- 12. Write short notes on :
 - (a) Vessel formation in Congrum
 - (b) Reproductive structures in Enhedra
- Write in detail about important geological formation in India.
- 14. Write detailed notes on :
 - (a) Classification of Gymnosperms
 - (b) Geological Time Scale
- 15. Discuss the morphology, structure, reproduct on & economic importance of gnetales. How they differ nom taxales?
- Describe evolutionary tendencies in reproductive structure of Gymnosperms.

30/2