D 93043

(Pages : 2)

Name.....

Reg. No.....

FIRST SEMESTER M.Sc. DEGREE EXAMINATION, DECEMBER 2015

(CUCSS)

Botany

BO 01 CT 01 - PHYCOLOGY, BRYOLOGY, PTERIDOLOGY AND GYMNOSPERMS

Time : Three Hours

Maximum : 36 Weightage

- I. Answer all the questions briefly :
 - 1. What are globule and nucule?
 - 2. Differentiate between unilocular and plurilocular sporangia.
 - 3. What are gonimoblast filaments?
 - 4. What are hormogones?
 - 5. What is a coenobium? Give an example.
 - 6. What are receptacles and conceptacles?
 - 7. What is rhizophore?
 - 8. What is velum? What is its function?
 - 9. What are gemmae?
 - 10. What are the major economic importance of Gymnosperms?
 - 11. Describe the characters of the ovule of Gymnosperms.
 - 12. How does Gnetales differ from other Gymnosperms?
 - 13. What are 'Bars of Sanio'?
 - 14. List the fern characters of Cycas.

 $(14 \times 1 = 14 \text{ weightage})$

II. Answer any seven questions in not more than 100 words :

- 15. Describe the tetrasporine line of evolution of thallus in green algae.
- 16. Differentiate between carposporophyte and tetrasporophyte.
- 17. Write notes on heterotrichous thallus in brown algae.
- 18. What are the general characters of lycopodiales?
- 19. Write short notes on : (a) Apospory ; (b) Apogamy.

Turn over

- 20. Describe briefly various asexual methods of reproduction in bryophytes.
- 21. Differentiate between homosporic and heterosporic ferns giving suitable examples.
- 22. Explain exosporic and endosporic gametophytes. Give examples.
- 23. Is Ginko a living fossil? Evaluate.
- 24. Comment on the affinities of Gymnosperms with Angiosperms.

 $(7 \times 2 = 14 \text{ weightage})$

- III. Answer any two questions in 300 words each :
 - 25. With the help of suitable diagrams describe different types of stelar system found in pteridophytes.
 - 26. Describe the structure and development of sporophyte of Anthocerotales with the help of suitable diagrams.
 - 27. Mention the general characteristics of Phaeophyceae and discuss the various types of life cycles seen in this group.
 - 28. Compare and contrast the male reproductive structures of Coniferales and Taxales.

 $(2 \times 4 = 8 \text{ weightage})$