Name	. Reg. No

BSc DEGREE END SEMESTER EXAMINATION MARCH 2017

SEMESTER - 6: BOTANY (CORE COURSE)

COURSE: **U6CRBOT10: BRYOLOGY, PTERIDOLOGY, GYMNOSPERMS**& PALEOBOTANY

(For Regular - 2014 Admission)

Time: Three Hours Max. Marks: 60

PART A

Answer All questions. Each question carries 1 mark.

- 1. What is seta?
- **2.** Name a heterosporous pteridophyte.
- **3.** What are impressions?
- 4. What is the peculiarity of the xylem of Gnetum?
- 5. Name two vegetative reproductive methods in Riccia?
- **6.** What are the Pteridophyte characters seen in Gymnosperms?
- 7. Name the fruiting body of Marsilea?
- **8.** Name the member under hepaticae having the most advanced sporophyte?

 $(1 \times 8 = 8)$

PART B

Answer **Any Six** questions. Each question carries 2 marks.

- 9. Why do we consider the bryophytes as the amphibians of the plant kingdom?
- 10. Define paleobotany?
- **11.** What is a synangium?
- 12. What are coralloid roots?
- 13. What are elators?
- **14.** What are Petrifactions?
- **15.** What is Protonema?
- **16.** What are the peculiarities of Needles?
- **17.** Mention any two Angiosperm characters that are found in the Gymnosperms that you have studied?
- 18. What are trabeculae?

 $(2 \times 6 = 12)$

(PTO)

PART C

Answer **Any Four** questions. Each question carries 4 marks.

- **19.** Comment on the male cones of *Pinus* and *Gnetum*?
- **20.** Draw a neat labeled sketch of *Funaria* capsule?
- **21.** Comment on the Indian Contributions to Paleobotany?
- **22.** Briefly discuss the affinities of *Gnetum* with Angiosperms?
- **23.** Draw a neat labeled sketch of TS of *Pinus* needle?
- **24.** Briefly discuss the vegetative modes of reproduction among the Pteridophytes that you have studied?

 $(4 \times 4 = 16)$

PART D

Answer **Any Two** questions. Each question carries 12 marks.

25. With detailed illustrations, compare the sporophytes of *Riccia, Marchantia* and *Anthoceros*. Also suggest the advanced one giving reasons?

OR

- **26.** Compare the strobilar organizations among *Equisetum* and *Selaginella* with detailed illustrations?
- **27.** Compare the stem anatomy of *Cycas, Pinus* and *Gnetum*. How do they differ from each other?

OR

28. With suitable illustrations discuss the stellar organization among the various species of *Lycopodium* that you have studied?

 $(12 \times 2 = 24)$
