

 **ST. JOSEPH’S UNIVERSITY, BENGALURU-27**

**B.Sc. BOTANY - II SEMESTER**

**SEMESTER EXAMINATION: APRIL 2023**

**(Examination conducted in May 2023)**

**BO 222- Diversity of Non-Flowering Plants**

**Time- 2 hrs Max Marks-60**

**This question paper contains ONE printed page and three parts**

**Write examples and draw labelled diagrams wherever necessary**

**Part-A: Answer any TEN questions in two or three sentences each: 2X 10=20**

1. Hormogones

2. Mucilage cavity in *Anthoceros*

3. Laminarin

4. Club moss

5. Petrifactions

6. Nannandria

7. Diatomaceous earth

8. Siphonostele

9. Secretory zone of *Lepidodendron*

10. Phlobaphene

11. Cystocarp

12. Rhizophore

**Part-B: Write critical notes on any FIVE of the following: 6X 5=30**

 13. Requirements and procedure for commercial cultivation of *Spirulina*

 14. What are the steps involved in the exploration of fossil fuels

 15 Sex organs in *Chara*

 16 L.S of male cone in *Gnetum*

 17 Anatomy of *Equisetum* stem

 18 Salient features of Pteridophytes

 19 Heterospory leading to seed habit in plants

**Part-C: Give a comprehensive account of any ONE of the following: 10X1=10**

20.Discuss the economic importance of algae and add a note on algal blooms.

 21 Describe the H.L.S of Marsilea sporocar