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Name.....

Reg. No.....

**THIRD SEMESTER (CBCSS—UG) DEGREE EXAMINATION
NOVEMBER 2024**

Botany

BOT 3B 03—PHYCOLOGY, BRYOLOGY AND PTERIDOLOGY

(2019—2023 Admissions)

Time : Two Hours

Maximum : 60 Marks

Section A*Answer all questions.**Each question carries 2 marks.**Ceiling : 20 Marks.*

1. What is Syanangium ? Write down an example.
2. Distinguish between globule and nucule ?
3. Write critical notes on coenobium.
4. Mention the importance of algae in agriculture.
5. Comment on Aplanospores and Zoospores.
6. Briefly evaluate the sporophyte of Riccia.
7. State the features of Pinnularia.
8. Give an account of distinguishing features of Bryophytes and Pteridophytes.
9. What is Glossopodium ? Cite suitable example.
10. Describe the mode of reproduction in Vaucheria.
11. What are the economic importance of Pteridophytes.
12. Which are the reserve food products in brown and red algae ?

Turn over

Section B

*Answer all questions.
Each question carries 5 marks.
Ceiling : 30 Marks.*

13. Draw and explain the structure of sporophyte of Funaria.
14. Write an account of classification of Pteridophyte by Smith et al. (2008).
15. Briefly explain the morphological features of Equisetum.
16. Explain the structure of sporophyte of Anthoceros.
17. Describe the heterospory and seed habit in Pteridophytes.
18. Explain the Harmful effects of algae.
19. Describe the features of Pteris.

Section C

*Answer any one question.
The question carries 10 marks.*

20. Explain the different mode of reproduction in algae
21. Give an account on stellar evolution in Pteridophytes.

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(2019—2022 Admissions)

Time : Two Hours

Maximum : 60 Marks

Section A*Answer all questions, each question carries 2 marks.**Ceiling : 20 marks.*

1. What are Indusia ?
2. Differentiate between isogamy and anisogamy.
3. What is Apogamy ?
4. Mention the importance of cyanobacteria in agriculture.
5. Comment on the structure of cystocarp in Polysiphonia.
6. Briefly evaluate the sporophyte of Riccia.
7. State the characteristics of a diatom cell.
8. Give an account of the features of Bryophyte.
9. What is glossopodium? Cite a suitable example.
10. Describe the types of reproduction seen in Vaucheria.
11. What is Actinostele ?
12. Write two examples of fossil Bryophytes.

Turn over

Section B

Answer all questions, each question carries 5 marks.

Ceiling : 30 Marks.

13. Draw the structure of a mature sporophyte of Funaria
14. Write an account of the pigments in different classes of algae
15. Explain the anatomy of Equisetum stem
16. Explain the structure of sporophyte of Anthoceros
17. What is Heterospory ? 'Heterospory leads to seed habit'. Comment on it
18. Describe the importance of Carrageenan and Algin
19. Describe the structure of strobilus in Equisetum.

Section C

Answer any one question, each question carries 10 marks.

20. Explain the economic importance in algae.
21. Give an account of stelar evolution in Pteridophytes.

(1 × 10 = 10 marks)

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NOVEMBER 2022**

Botany

BOT 3B 03—PHYCOLOGY, BRYOLOGY AND PTERIDOLOGY

(2019 Admission onwards)

Time : Two Hours

Maximum : 60 Marks

Section A*Answer all questions, each question carries 2 marks.**Ceiling 20 marks.*

1. Describe the formation of auxospore in diatoms.
2. Write a brief account on algal pigments.
3. Describe the ultra structure of *Nostoc* cell.
4. Explain the formation of daughter colony in *Volvox*.
5. Draw a labelled diagram of a nannandrous *Oedogonium* filament.
6. Compare the rhizoids of *Riccia* with that of *Funaria*.
7. Write an account on fossil bryophytes.
8. What is peat? What is its importance?
9. Write notes on apogamy in pteridophytes, citing an example.
10. What is synangium ? Give an example.
11. Describe sorus and sporangium in *Pteris*.
12. Distinguish endosporic and exosporic gametophytes, citing examples.

(Ceiling 20 marks)

Turn over

Section B

Answer **all** questions, each question carries 5 marks.

Ceiling 30 marks.

13. Describe the structure of thallus in *Chara*.
14. Write an account on sexual reproduction and carposporophyte in *Polysiphonia*.
15. Describe the external and internal features of *Anthoceros* gametophyte.
16. Explain the structure of capsule in *Funaria*. Add a note on its dehiscence.
17. Describe different types of siphonosteles found in pteridophytes with examples.
18. Write an account on the economic importance of pteridophytes.
19. Explain the external features of *Equisetum* sporophyte.

(Ceiling 30 marks)

Section C

Answer any **one** question, the question carries 10 marks.

20. Write an essay on the economic importance of algae.
21. What are the characteristics of seed habit? Comment on seed habit in pteridophytes with reference to *Selaginella*.

(1 × 10 = 10 marks)