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50562 (Pages : 2) Name.....

Reg. No.....

FIFTH SEMESTER (CBCSS—UG) DEGREE EXAMINATION NOVEMBER 2023

Botany

BOT 5D 01—GENERAL BOTANY

(2019 Admission onwards)

me : Two Hours Maximum : 60 Marks

Section A

Answer **all** *questions, each question carries* 2 *marks.*

Ceiling : 20 *marks.*

1. Differentiate between diffusion and osmosis.
2. Differentiate between in-situ and ex-situ conservation.
3. Define sustainable development ?
4. Comment on golden rice.
5. Define cell cycle.
6. Pointout any *two* pollination methods in plants.
7. How will you differentiate root of dicot and monocot plants.
8. Give the essential components required for photosynthesis.
9. Name the nitrogenous bases in DNA.
10. Comment on significance of meiosis.
11. Give any *four* application of tissue culture.
12. How flowers grouped based on symmetry.

Turn over

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Section B

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

Ceiling : 30 *marks.*

13. Explain the structure of DNA.

14. Give an account on application of transgenic plants.

15. What are the causes of ozone layer depletion ? How can you control this ?

16. Define Tissue ? Explain the structure and function of types of tissues you have studie

17. With the help of diagram explain the parts of a typical flower.

18. Expand IUCN. Explain threat categories and Red list.

19. Explain Eichlers System of classification.

Section C

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

20. Describe the structural components of an ecosystem.

21. How absorption of nutrients takes place in plants ? Give an account on the types of macro nutrients required for plants.

(1 × 10 =