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Reg. No. : .....

Code No. : 20551 E Sub. Code : CNBO 42

U.G. (CBCS) DEGREE EXAMINATION, APRIL 2024.

Fourth Semester

Botany

Non Major Elective – BOTANY FOR COMPETITIVE  
EXAMINATION – II

(For those who joined in July 2021 onwards)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 1 = 10 marks)

Answer ALL questions.

Choose the correct answer :

1. Gemma are asexual reproductive bodies found in
  - (a) Algae
  - (b) Fungi
  - (c) Bryophytes
  - (d) Bacteria

2. One of the following is a plant virus
  - (a) TMV
  - (b) Pox Virus
  - (c) T4 phage
  - (d) Influenza virus
3. The classification proposed by Engler and Prantle is of which type
  - (a) Natural system
  - (b) Artificial system
  - (c) Phylogence system
  - (d) Numerical system
4. The fruit of fabaceae is
  - (a) Legume
  - (b) Caryopsis
  - (c) Pepo
  - (d) Pome
5. Phyllanthus emblica is a
  - (a) Tree
  - (b) Herb
  - (c) Shrub
  - (d) Twiner
6. The herb used to treat cough is
  - (a) Ocimum
  - (b) Vetiver
  - (c) Papaver
  - (d) Gymnema

7. Dark reaction of photo synthesis occurs in
- Thylakoid
  - Granum
  - Stoma
  - Cell wall
8. The number of ATP molecule synthesised due to the breakdown of the glucose molecule is
- 38
  - 30
  - 40
  - 37
9. 1 : 2 : 1 is the genotypic ratio of
- Monohybrid cross
  - Dihybrid cross
  - Incomplete dominance
  - Test cross
10. Fertilizers applied to crop plants pollute
- Soil resources
  - Air
  - Water resources
  - Both (a) and (c)

PART B — (5 × 5 = 25 marks)

Answer ALL questions choosing either (a) or (b).  
Each answer should not exceed 250 words.

11. (a) Write the salient features of Algae.
- Or
- (b) Highlights the economic importance of Bacteria.
12. (a) Outline the Bentham and Hooker's system of classification.
- Or
- (b) Explain the importance of cucurbitaceous members.
13. (a) Write the botanical name, medicinally useful part and medicinal uses of Kuppaimeni.
- Or
- (b) Write the botanical name, morphology of the useful part and medicinal uses of Ginger.
14. (a) Explain the different types of respiration.
- Or
- (b) Write a note on the C3 cycle.

15. (a) Write short notes on Tracheids and wood fibres.

Or

(b) Explain the basic techniques in plant tissue culture.

PART C — (5 × 8 = 40 marks)

Answer ALL questions choosing either (a) or (b).  
Each answer should not exceed 600 words.

16. (a) Discuss the economic importance of fungi.

Or

(b) Write the salient features of pteridophytes and Gymnosperms.

17. (a) Describe Engler and Prantl's system of classification.

Or

(b) Explain in detail the characteristic features of family fabaceae.

18. (a) Write an account of the botanical name, distribution, morphology of useful parts and medicinal uses of tulsi.

Or

(b) Discuss the importance of phyllanthus emblica and Acalypha indica.

19. (a) Explain the mechanism of absorption of water by roots.

Or

(b) Explain in detail the synthesis of protein in plants.

20. (a) Describe the mass culture methods of Nostoc biofertilizer.

Or

(b) Write an essay on Permanent tissues.

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