

(6 Pages)

Reg. No. :

Code No. : 10593 E Sub. Code : SNBO 4 B/
ANBO 42

U.G. (CBCS) DEGREE EXAMINATION, APRIL 2022

Fourth Semester

Botany

Non Major Elective — BOTANY FOR COMPETITIVE
EXAMINATION

(For those who joined in July 2017 onwards)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 1 = 10 marks)

Answer ALL questions.

Choose the correct answer :

1. Who is father of botany?
(a) Linnaeus (b) Theophrastus
(c) Mendal (d) M.O.P Iyengar
2. Double fertilization is exhibited by
(a) Alage (b) Fungi
(c) Gymnosperms (d) Angiosperms

3. Which one is a natural system of classification?
(a) Bentham and Hooker
(b) Engler and Prantle
(c) Hutchinson
(d) All
4. Binomial nomenclature was introduced by
(a) Linnaeus (b) Mendal
(c) Bentham (d) Hooker
5. Bitter plant is —————
(a) *Acalypha indica*
(b) *Andrographis paniculata*
(c) *Solanum trilobatum*
(d) *Ocimum sanctum*
6. *Phyllanthus emblica* belongs to ————— family.
(a) Euphorbiaceae (b) Poaceae
(c) Fabaceae (d) Cucurbitaceae
7. Root pressure is developed in —————
(a) Xylem (b) Phloem
(c) Cortex (d) Pericycle

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8. Photosynthesis is ——— process.
(a) Catabolic (b) Anabolic
(c) Amphibolic (d) All
9. Synthetic seed is produced by encapsulating somatic embryo with
(a) Sodium chloride (b) Sodium alginate
(c) Sodium acetate (d) Sodium nitrate
10. Plant tissue culture technique is a redefined method of
(a) Hybridization
(b) Vegetative propagation
(c) Asexual reproduction
(d) Selection

PART B — (5 × 5 = 25 marks)

Answer ALL questions, choosing either (a) or (b).

Each answer should not exceed 250 words.

11. (a) What are algae? Give short notes on characteristic features of algae.

Or

- (b) List out the economic importance of fungi.

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12. (a) Differentiate natural and phylogenetic system of classification.

Or

- (b) List out economic importance of members of fabaceae.

13. (a) List out the medicinal uses of *Acalypha indica*.

Or

- (b) Write short notes on Azadiractin.

14. (a) Write short notes on chloroplast with sketch.

Or

- (b) Write an account of active absorption of water.

15. (a) What are recombinants? How do you identify those recombinants?

Or

- (b) Give an account on Biofertilizers.

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PART C — (5 × 8 = 40 marks)

Answer ALL questions, choosing either (a) or (b).

Each answer should not exceed 600 words.

16. (a) Enumerate the economic importance of algae.

Or

- (b) List out the general characters of pteridophytes.

17. (a) Discuss in detail on international code of botanical nomenclature.

Or

- (b) Point out the economic importance of the family poaceae.

18. (a) Tabulate any ten uses of amal.

Or

- (b) Enumerate the economic importance of *Andrographis paniculata*.

19. (a) Describe the mechanism of opening and closing of stomata.

Or

- (b) Differentiate between cyclic and non-cyclic photophosphorylation.

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20. (a) Describe restriction endonucleases.

Or

- (b) Enlist the scope and importance of plant tissue culture.

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