

U.G. 3rd Semester Examination-2024

BOTANY

[Multidisciplinary Course (MDC)]

Course Code : BOT-MDC-T-01

(Plant Diversity and Morphology)

[NEP-2020]

Full Marks : 35

Time : 90 Minutes

Instructions to the Candidates:

- Candidates will be provided with a question cum answer booklet.
- The booklet contain 40 multiple choice questions, each carrying 1 mark. Candidate will attempt 35 questions from the following (MCQ).
- Candidates must fill up his/her Registration Number, Year & Roll Number in the space provided.
- Do not make any rough work on the answer booklet.
- At the end of the examination please return the answer booklet to the invigilator.

Registration No.

Year

Roll Number

Signature of the Invigilator

[Turn Over]

Answer any **thirty-five** from the following questions. [Choose the correct option and put tick (✓) mark beside given box]:

1×35=35

1. Virus is called acellular because
 - a) They contain no cytoplasm or cellular organelles ☐
 - b) They can reproduce by lytic and lysogenic cycle ☐
 - c) They are used in vaccine production ☐
 - d) Viruses are able to cause disease in other organism ☐
2. Endospore formation can be seen in
 - a) Gymnosperm ☐
 - b) Angiosperm ☐
 - c) Virus ☐
 - d) Bacteria ☐
3. Algae are called primary producer because
 - a) They produce CO₂ during respiration ☐
 - b) They make carbohydrate through photosynthesis ☐
 - c) Algae are the source of single celled protein ☐
 - d) Some algae can fix atmospheric nitrogen ☐
4. Vascular bundle is not present in
 - a) Algae ☐
 - b) Gymnosperm ☐
 - c) Pteridophyte ☐
 - d) Angiosperm ☐
5. The plant groups which are unable to produce their own food is
 - a) Gymnosperm ☐
 - b) Angiosperm ☐
 - c) Fungi ☐
 - d) Algae ☐
6. Amphibians in the plant kingdom are
 - a) Algae ☐
 - b) Fungi ☐
 - c) Bryophytes ☐
 - d) Pteridophytes ☐

[Turn Over]

7. Sporophylls are present in
 - a) Bryophytes
 - b) Pteridophytes
 - c) Algae
 - d) Fungi
8. During evolution vascular tissue was first appeared in
 - a) Algae
 - b) Pteridophytes
 - c) Angiosperm
 - d) Bryophytes
9. Cones are reproductive organ for
 - a) Fungi
 - b) Algae
 - c) Gymnosperm
 - d) Pteridophytes
10. Flowers and seeds can be seen in
 - a) Algae
 - b) Fungi
 - c) Bryophytes
 - d) Angiosperm
11. The Pteridophyte genus having cyanobacterial symbiosis is
 - a) *Pteris*
 - b) *Equisetum*
 - c) *Azolla*
 - d) *Selaginella*
12. Bacteria is not used in
 - a) Sewage treatment
 - b) Antibiotic production
 - c) Metal extraction
 - d) Alcohol production
13. Red tide is an event caused in the aquatic environment by
 - a) Angiosperm
 - b) Fungi
 - c) Algae
 - d) Bryophyte

14. Which of the following is not the part of flower?
 - a) Sepal
 - b) Petal
 - c) Style
 - d) Bulbil
15. Pappus is the modified form of
 - a) Calyx
 - b) Corolla
 - c) Androecium
 - d) Gynoecium
16. Which one is not the type of aestivation of flower?
 - a) Valvate
 - b) Imbricate
 - c) Twisted
 - d) Dichotomous
17. Floral formula indicates
 - a) Structure of flower
 - b) Structure of leaf
 - c) Structure of seed
 - d) Structure of food
18. Epipetalous condition is
 - a) Union of petals and stamens
 - b) Union of stamens and sepals
 - c) Union of stamen and gynoecium
 - d) Union of gynoecium and androecium
19. Gynandrous stamens seen in the families like
 - a) Asclepiadaceae and Orchidaceae
 - b) Fabaceae and Solanaceae
 - c) Poaceae and Asteraceae
 - d) Brassicaceae and Araceae
20. Carpel is related with
 - a) Reproduction of plants
 - b) Transpiration
 - c) Senescence
 - d) Evaporation

21. Which of the following is not form of placentations in plants?

- a) Axile
- b) Basal
- c) Apical
- d) Gynostegium

22. Abiotic agent for pollination is

- a) Water
- b) Insect
- c) Bird
- d) Bats

23. Leaf having smooth margin is called

- a) Entire
- b) Serrate
- c) Dentate
- d) Crenate

24. Which one is not the form of inflorescence?

- a) Raceme
- b) Spike
- c) Corymb
- d) Decussate

25. Spadix inflorescence is seen in

- a) Banana
- b) Rice
- c) Apple
- d) Grass

26. Which of the following is not the function of stipules?

- a) Photosynthesis
- b) Protection
- c) Mechanical support
- d) Water conduction

27. Cladophylls are modified

- a) Root
- b) Stem
- c) Leaf
- d) Branch

28. Phyllotaxy is arrangement of

- a) Leaf
- b) Stem
- c) Flower
- d) Branch

29. Mango is the example of

- a) Drupe
- b) Pome
- c) Berry
- d) Hesperidium

30. Seed bearing part of angiosperm plant is called

- a) Leaf
- b) Stem
- c) Fruit
- d) Root

31. Pollination is done by animal is called

- a) Zoophily
- b) Anemophily
- c) Anthrophily
- d) Entomophily

32. Ripened ovary is

- a) Stem
- b) Root
- c) Fruit
- d) Branch

33. Dandelion seeds are dispersed by

- a) Water
- b) Wind
- c) Animal
- d) Bird

34. Asexual reproduction in bacteria is

- a) Binary fission
- b) Conjugation
- c) Transformation
- d) Transduction

35. Ecological importance of fungi is
- a) Primary productivity
 - b) Decomposition
 - c) Nitrogen fixation
 - d) Community respiration
36. Free living nitrogen fixing bacteria are
- a) Azotobacter
 - b) Rhizobia
 - c) Frankia
 - d) Azospirillum
37. Infection in tobacco plant is caused by
- a) TMV
 - b) Bacteriophage
 - c) Pox virus
 - d) Dengue virus
38. Mould belong to the plant group
- a) Algae
 - b) Fungi
 - c) Bryophyte
 - d) Pteridophyte
39. Consumable part of mushroom is
- a) Mycellium
 - b) Fruiting body
 - c) Stalk
 - d) Hyphae
40. In algae spore is the reproductive cell for
- a) Sexual and asexual reproduction
 - b) Sexual reproduction
 - c) Asexual reproduction
 - d) None of above

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