



**BBB-003-001104**

Seat No. \_\_\_\_\_

**B. Sc. (Sem. I) (CBCS) Examination**

**July - 2021**

**Botany : Paper - 101**

*(Diversity and Classification of the Plant Kingdom)*

*(Old Course)*

**Faculty Code : 003**

**Subject Code : 001104**

Time :  $2\frac{1}{2}$  Hours]

[Total Marks : 70

1 Answer in very short : 20

- (1) Define : Hyphae.
- (2) Give the example of unifoliate leaf.
- (3) Define : Stipule.
- (4) which stage is dominant in Pteridophytes?
- (5) Draw imbricate aestivation.
- (6) Give the name of sub-discipline of botany which dealing with the study of algae.
- (7) Who proposed five kingdom classification?
- (8) Define : Morphology.
- (9) What are receptacles?
- (10) Write the dominant pigments of phaeophyta.
- (11) Which type of inflorescence is found in Sunflower?
- (12) (9) + 1 stamens are called as \_\_\_\_\_
- (13) Define : Perianth.
- (14) How many cells are present in the plakea stage of Volvox?
- (15) Which type of inflorescence is found in Poaceae family?
- (16) Which symbol is used for regular flower?
- (17) Give any two examples of cymose inflorescence.
- (18) Give class and order of Sargassum.

- (19) Deuteromycetae is called as \_\_\_\_\_
- (20) True or False : vexillary aestivation is found in flowers of Papilionaceae family.

**2** (A) Answer the following questions in brief : (Any **Three**) **6**

- (1) Describe venation.
- (2) Write any two economic importances of algae.
- (3) Write the external features of Selaginella.
- (4) Draw labeled diagram of Sargassum thallus.
- (5) Write a note on kingdom Monera.
- (6) Give differences between root and stem.

(B) Answer the following questions in brief : (Any **Three**) **9**

- (1) Give the classification of algae in brief.
- (2) Write a note on gemma cup of Marchantia (excluding figure).
- (3) Give the classification of Marchantia.
- (4) Define symmetry with diagram.
- (5) Draw only labeled diagram of Cycas rachis.
- (6) Write short note on general characters of Pteridophytes.

(C) Answer the following questions in brief : (Any **Two**) **10**

- (1) Describe reproduction in Sargassum.
- (2) Describe internal structure of Cycas leaflet with labeled diagram.
- (3) Explain distinguishing characters, floral formula and two examples of Euphorbiaceae family.
- (4) Describe fossils in detail.
- (5) Describe economic importance of fungi.

- 3 (A) Answer the following questions in brief : (Any Three) 6**
- (1) Draw labeled diagram of Agaricus.
  - (2) Write any two scientific and local name of plants from Poaceae family.
  - (3) Define : inflorescence.
  - (4) Mention two importance characters of gymnosperms.
  - (5) Explain dimorphism in Cycas leaves.
  - (6) Write a note on rhizoid of Marchantia.
- (B) Answer the following questions in brief : (Any Three) 9**
- (1) Describe special types of inflorescence (excluding figure).
  - (2) Explain Bentham and Hooker's classification of plant family in brief.
  - (3) Write a short note on position of flower with labeled diagram.
  - (4) Describe kingdom plantae.
  - (5) Write the floral formula and floral diagram of Acanthaceae family.
  - (6) Write a note on Volvox colony.
- (C) Answer the following questions in brief : (Any Two) 10**
- (1) Define phyllotaxy. Explain types of phyllotaxy in plants.
  - (2) Describe the fruiting body / basidiocarp of Agaricus.
  - (3) Describe racemose type of inflorescence.
  - (4) Describe Selaginella cone / strobilus.
  - (5) Explain internal structure of archegoniophore of Marchantia with labeled diagram.