



D-003-001104

Seat No. _____

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

March - 2022

B-101 : Botany

(Diversity & 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) 5 kingdom classification of plant is given by
- (2) Primitive Plants have dominant generation,
- (3) Seed less vascular plants are
- (4) Non flowering plants are
- (5) What is Akinetes?
- (6) Which is the life cycle of Sargassum?
- (7) Define: Chlamydospore
- (8) is utilized for fermentation.
- (9) In archegonium the cell above the egg cell is
- (10) How many rows of cells found in the archegonium in bryophytes?
- (11) Which type of stele found in pteridophytes? (any two)
- (12) Stele in the stem of Selaginella is Endarch.
(True / False)
- (13) What is leaf stipule?
- (14) Define: Habit
- (15) Define: Compound Leaf
- (16) A Kidney shaped leaf is termed as Reniform.
(True / False)
- (17) Explain: Sperm in Cycas
- (18) Explain the term : Gymnosperm
- (19) Define: Nomenclature
- (20) Sugarcane inflorescence is a Panicle. (True / False)

- 2** (a) Attempt any **three** out of six: **6**
- (1) Write four characters of kingdom Protista
 - (2) Agar-agar is obtained from which algae?
 - (3) What is alternation of generation?
 - (4) What is inflorescence?
 - (5) Write two characteristics of the ovule of gymnosperms.
 - (6) Explain: Functions of calyx
- (b) Attempt any **three** out of six: **9**
- (1) How land plants evolved from algae?
 - (2) Explain: Economic importance of fungi
 - (3) Describe male sex organs of Marchantia.
 - (4) Explain position of flower,
 - (5) Write a note on bulbils.
 - (6) Give the economic value of grass-family.
- (c) Attempt any **two** out of five: **10**
- (1) Explain Systems of classification- Bentham and Hooker.
 - (2) Write Short note on type of stem. (with Diagram)
 - (3) Describe cones of Selaginella.
 - (4) Short note on diversity of land plants.
 - (5) write note on classification of Fungi.
- 3** (a) Attempt any **three** out of six: **6**
- (1) Distinguish between simple leaf and compound leaf.
 - (2) Write normal function of venation.
 - (3) Explain perianth with two examples.
 - (4) Draw a well labeled diagram of v.s. of gemma cup.
 - (5) Write four characters of Kingdom Monera.
 - (6) Give scientific name and local name of two plants belong to Euphorbiaceae family.

- (b) Attempt any **three** out of six: **9**
- (1) Give the Morphology of Sargassum.
 - (2) Draw floral diagram of family Acanthaceae..
 - (3) Write the economic importance of algae as food.
 - (4) Explain with diagram: button stage in Agaricus.
 - (5) Explain parts of leaf.
 - (6) Distinguish between: Fabaceae and Poaceae.
- (c) Attempt any **two** out of five: **10**
- (1) Describe: Gills in Agricus.
 - (2) Describe various division of algae.
 - (3) Explain without diagram: Sportphyte in marchantia.
 - (4) Outline of classification of Pteridoplytes with two characters.
 - (5) Mlicrosporophyll and Sporangia in Cycas.
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