



JAP-003-001104

Seat No. _____

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

November - 2019

Botany : B - 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

- Instructions :** (1) This question paper contains three questions All are compulsory.
- (2) Draw neat and labeled diagram wherever necessary.
- (3) Figures to the right indicate marks.

1 Write answer in very short : 20

- (1) Who discovered the five kingdom classification?
- (2) Which substance is made up of fungi cell wall?
- (3) Define : taxonomy.
- (4) Give example of Protista kingdom.
- (5) Write the function of flagella.
- (6) Define : isogamy
- (7) Write the full form of SCP.
- (8) Define : thallus
- (9) Write the parts name of sporophyte.
- (10) Which types of reproduction is absent of bryophytes?
- (11) Write the function of xylem.
- (12) Define : homospore.

- (13) What is morphology ?
- (14) Write one characteristic of Acicular leaf.
- (15) Write one example of spadix inflorescences.
- (16) What is the function of nucellus?
- (17) Define : coralloid roots
- (18) Define: perianth flower.
- (19) Write the scientific name of arduisi.
- (20) Give one scientific plant name of poaceae family.

- 2 (A) Write any **three** out of six : **6**
- (1) Give the characters of Protista kingdom.
 - (2) What is alternation of generation cycle.
 - (3) Describe the permineralization.
 - (4) Write the characteristics of chlorophyceae.
 - (5) Write the habitat of mucor.
 - (6) Give the classification of sargassum.
- (B) Write any **three** out of six : **9**
- (1) Describe the living fossils.
 - (2) Write the general characteristics of algae.
 - (3) Write any three economics importance of algae.
 - (4) Describe the morphology of volvox.
 - (5) Write the vegetative structure of mucor.
 - (6) Describe general characters of fungi.
- (C) Write any **two** out of five : **10**
- (1) Describe the five kingdom classification.
 - (2) Explain the diversity of land plants.
 - (3) Give the G.M.Smith classification of algae.
 - (4) Explain the sexual reproduction in sargassum.
 - (5) Describe the sexual reproduction in mucor.

- 3 (A) Write any **three** out of six : **6**
- (1) Give classification of marchantia.
 - (2) Write the characteristics of pteropsida.
 - (3) Write the types of roots.
 - (4) Draw only labeled diagram of morphology leaf.
 - (5) Explain the attachment of anther.
 - (6) Write the general characteristics of acanthaceae family.
- (B) Write any **three** out of six : **9**
- (1) Write the general characteristics of bryophytes.
 - (2) Explain the anatomical structure of stem in selaginella.
 - (3) Write the types of leaf margins.
 - (4) Explain the types of aestivation.
 - (5) Describe the anatomy structure of rachis in cycas.
 - (6) Write the floral formula and floral diagram of papilionaceae family.
- (C) Write any **two** out of five : **10**
- (1) Explain the sexual reproduction in marchantia.
 - (2) Write the classification of pteridophytes.
 - (3) Describe the types of venation of leaf.
 - (4) Explain the male cone and female cone of cycas.
 - (5) Discuss the classification of Bentham and Hooker.
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