



HDP-003-001104

Seat No. _____

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

November / December – 2017

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

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

1 Write answer in very short : **20**

- (1) Who proposed five kingdom classification?
- (2) Which type of food storage found in Algae?
- (3) Define word: Annual
- (4) Which stage is main stage in Bryophytes?
- (5) In dicot plant which type of Venation is mainly found in leaf?
- (6) Give scientific name of LAL PATA (euphorbiaceae plant).
- (7) Define word: Stipules
- (8) Study of fungi is known as?
- (9) Fucoxanthin responsible for which colour?
- (10) Which symbol use for five fuse petals and five free sepals?
- (11) Give any two examples of Raceme inflorescence
- (12) Define word: Perianth

- (13) Give scientific name of DESHI BAVAL (Babool tree)
- (14) Which stage is main stage in Pteridophytes?
- (15) Give difference between Haploid and Diploid.
- (16) Define word: Halophytes
- (17) Give full form of BGA and DNA
- (18) Unicellular fungus also known as?
- (19) Give class name of Mucor and Agaricus as per smith's classification.
- (20) Arrange division of plant kingdom in phylogeny form.

- 2** (a) Answer in brief : (any **three** out of six) **6**
- (1) Describe vegetative structure of Volvox.
 - (2) Write any two economic importance of fungi.
 - (3) Write a note on "Vegetative reproduction of Marchantia".
 - (4) Write any four morphological characters of Cycas.
 - (5) Write any two scientific and local name of plant from Poaceae family.
 - (6) Write a note on "Development of fossil".
- (b) Briefly answer the following questions : (any **three** out of six) **9**
- (1) Describe vegetative structure of Agaricus
 - (2) Write note on: "Anatomy of Axis of Sargassum".
 - (3) Draw only labelled diagram of T.S. of Cycas leaflet.
 - (4) Write a note on "Kingdom Monera".
 - (5) Draw only labelled diagram of Flowering Twig of Pisum sativum
 - (6) Describe typical leaf.

- (c) Answer in detail : (any **two** out of five) **10**
- (1) Describe asexual reproduction of Mucor (diagram not necessary).
 - (2) Describe various type of Aestivation (diagram necessary).
 - (3) Discuss various type of symbol use in flower formula.
 - (4) Describe Selaginella cone.
 - (5) Describe flower structure; floral formula and floral diagram of Euphorbiaceae family.
- 3** (a) Answer in brief : (any **three** out of six) **6**
- (1) Write any two economic importance of algae.
 - (2) Write any two shape of leaf.
 - (3) Write a note on "General characters of bryophytes (only four)".
 - (4) Draw labelled diagram of typical flower.
 - (5) Write a note on "Kingdom Protista".
 - (6) Give any four names of photosynthetic pigments and their responsible colour.
- (b) Briefly answer the following questions : (any **three** out **9** of six)
- (1) Draw label diagram of Volvox colony.
 - (2) Draw only labelled diagram of T.S of Cycas rachis.
 - (3) Write note on: Thallus of Marchantia (diagram not necessary).
 - (4) Write short note on: Structure of Mucor (diagram not necessary).
 - (5) Explain T.S of Anther
 - (6) Give 3-3 anatomical difference of prokaryotes and eukaryotes.

(c) Answer in detail : (any two out of five) 10

- (1) Describe various type of Placentation (diagram necessary).
 - (2) Explain structure and development of Achegonium of Marchantia.
 - (3) Describe flower structure, floral formula and floral diagram of Acanthaceae family.
 - (4) Describe five racemose type of inflorescence (diagram not necessary).
 - (5) Describe sexual reproduction of Sargassum.
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