



MBC-003-1011006 Seat No. _____

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

November / December – 2016

Botany : B - 101

(Plant Diversity) (New Course)

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

[Total Marks : 70

- Instructions :** (1) Attempt all the questions.
(2) Answer with labelled diagrams wherever necessary.
(3) Figures to the right side indicate total marks for the question.

- 1 (A) Answer the following objective type questions : 4
- (1) Write the name of macroscopic algae which belongs to order Fucales ?
 - (2) Write the name of branch of Botany which involves the study of plant classification, identifications and description.
 - (3) Write any two examples of fungi-kingdom.
 - (4) Name the reserve food materials found in red algae.

- (B) Answer in brief : (any 1 out of 2) 2
- (1) Write any four general characters of division – chlorophyta in algae.

OR

- (2) Write about “Algae as food”.

- (C) Answer in detail : (any 1 out of 2) 3
- (1) Give an outline classification of five-kingdom classification by Whittakar.

OR

- (2) Write note on “Objective of Botany.”

- (D) Write notes on : (any 1 out of 2) 5
- (1) Explain – Role of Algae in Human welfare.
- OR**
- (2) Explain – Sexual reproduction in sargassum.
- 2** (A) Objective type questions : 4
- (1) Write the name of fruiting body of agaricus.
- (2) What is meant by “Coenocytic” cell.
- (3) Which fungi is commonly known as “Mould Fungi”.
- (4) Yeast cells are the best source of which vitamin ?
- (B) Answer in brief : (Any 1 out of 2) 2
- (1) What is torula condition.
- OR**
- (2) Write the Habitat of Agaricus.
- (C) Answer in detail : (Any 1 out of 2) 3
- (1) Describe the role of fungi in agriculture.
- OR**
- (2) Describe – Vegetative structure of Mucor Thallus.
- (D) Write note on : (any 1 out of 2) 5
- (1) Explain – Structure of Mature Basidiocarp in Agaricus. Fungi.
- OR**
- (2) Explain – Sexual reproduction in Mucor.
- 3** (A) Objective types of questions : 4
- (1) In case of Bryophytes which vascular tissue are absent ?
- (2) What is the name of generation which is dominant in Bryophytes life-cycle.
- (3) Riccia belongs to which class ?
- (4) Name the types of Rhizoids found in Riccia.

- (B) Answer in brief : (Any 1 out of 2) 2
- (1) Write about vegetative reproduction taking place by tuber formation in Riccia.
- OR**
- (2) What is the function of peristome in Bryophyte.
- (C) Answer in detail : (Any 1 out to 2) 3
- (1) Write general characters of class - hepaticopsida.
- OR**
- (2) Describe – Structure of spore in Riccia sp.
- (D) Write note on : (any 1 out of 2) 5
- (1) Explain – Anatomical structure of Riccia Thallus.
- OR**
- (2) Explain – Sporophyte of Riccia.
- 4 (A) Objective type of questions : 4
- (1) When did the vascular plants originate on the earth ?
- (2) What is the function of Ramenta – Which are found in nopherolapis ?
- (3) What is the name of clustur of Sporangia ?
- (4) Write the name of any two divisions of Pteridophyta.
- (B) Answer in brief : (any 1 out of 2) 2
- (1) Write about Eu-sporangiate sporangium.
- OR**
- (2) What is geological time scale ?
- (C) Answer in detail : (any 1 out of 2) 3
- (1) Describe-Structure and function of Hydathode in Nopherolepis.
- OR**
- (2) Describe – Adaptation of life on land.

- (D) Write notes on : (any 1 out of 2) 5
(1) Explain – Asexual reproduction in Nephrolepis.

OR

- (2) Describe – Nephrolepis Prothallus.

- 5 (A) Objective type questions : 4

- (1) What is carraloid root in Cycas ?
(2) Write the name of living fossil Gymnosperm belonging to division Coniferophyta.
(3) What is the name of sterile part of microsporophyll in Cycas ?
(4) Which type of ovules are present in Cycas ?

- (B) Answer in brief : (any 1 out of 2) 2

- (1) Write about Bulbils of Cycas.

OR

- (2) What is transfusion tissue ? Write its function.

- (C) Answer in detail : (any 1 out of 2) 3

- (1) Describe – Types of leaves in Cycas.

OR

- (2) Describe – Pollination in Cycas.

- (D) Write note on : (any 1 out of 2) 5

- (1) Explain - Male and female cone of Cycas.

OR

- (2) Explain – Anatomical structure of cycas leaflet. (pinnae).