



**HDP-003-0011004**

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

**B. Sc. (Sem. I) (CBCS) (W.I.F. - 2016) Examination**

**November / December – 2017**

**B-101 : Botany**

*(Plant Diversity)*

*(New Course)*

**Faculty Code : 003**

**Subject Code : 0011004**

Time : 2½ Hours]

[Total Marks : 70

- Instructions :** (1) Attempt all the questions.  
(2) Answer with draw neat and labelled diagram wherever necessary.  
(3) Figures to the right side indicated total marks for the questions

1 (a) Answer the following Objective type questions : 4

- (1) What are receptacles?  
(2) Spirogyra is commonly known as \_\_\_\_\_.  
(3) Write the dominant pigment of Rhodophyta.  
(4) The commercial source of agar are \_\_\_\_\_ and \_\_\_\_\_.

(b) Answer in brief : (any 1 out of 2) 2

- (1) Write any two general characters of Kingdom Plantae.

**OR**

- (2) State the type of algae according to habitat.

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

- (1) Explain cell structure of Spirogyra.

**OR**

- (2) What is botany? Explain its branches.

- (d) Write a note on : (any 1 out of 2) 5  
(1) Describe - Scleriform conjugation in Spirogyra.
- OR**
- (2) Explain internal structure of Sargassum Axis.
- 2** (a) Answer the following Objective type questions 4  
(1) Fruiting body of Agaricus is called \_\_\_\_\_  
(2) Mode of nutrition in Mucor is \_\_\_\_\_  
(3) Define the term : Eucarpic.  
(4) Which fungi produce gibberellin?
- (b) Answer in brief : (any 1 out of 2) 2  
(1) Give classification of Agaricus.
- OR**
- (2) Write vegetative structure of Mucor.
- (c) Answer in detail : (any 1 out of 2) 3  
(1) Explain gill structure with labelled diagram.
- OR**
- (2) Write uses of fungi as food and medicine.
- (d) Write a note on : (any 1 out of 2) 5  
(1) Describe - Asexual reproduction in Mucor.
- OR**
- (2) Give an account of general characters of fungi.
- 3** (a) Answer the following Objective type questions : 4  
(1) Which types of rhizoids are present in Riccia?  
(2) What do you mean by gametophytic phase of bryophyte?  
(3) Write the name of aquatic species of Riccia.  
(4) The cells of Riccia thallus is consists of \_\_\_\_\_  
Chloroplast.

- (b) Answer in brief : (any 1 out of 2) **2**  
(1) Draw a labelled diagram about the internal structure of Riccia thallus.

**OR**

- (2) Give the systematic position of Riccia.

- (c) Answer in detail : (any 1 out of 2) **3**  
(1) Explain the vegetative reproductive method of Riccia.

**OR**

- (2) Write the six common features of bryophytes.

- (d) Write a note on : (any 1 out of 2) **5**  
(1) Describe the sex organs of Riccia.

**OR**

- (2) Give the general characters of class Hepaticopsida.

- 4 (a) Answer the following Objective type questions : **4**  
(1) What is Sporophyll?  
(2) Spores of Nephrolepis is \_\_\_\_\_ Shaped.  
(3) Land plants evolved from \_\_\_\_\_  
(4) Mention true or false: In Nephrolepis, venter of archegonium. is embedded in the tissue.

- (b) Answer in brief : (any 1 out of 2) **2**  
(1) Explain the morphology of Nephrolepis leaf.

**OR**

- (2) Name the division of pteridophytes given by smith.

- (c) Answer in detail : (any 1 out of 2) **3**  
(1) Write a note on - Nephrolepis prothallus.

**OR**

- (2) Write the characteristics of Psilopsida.

(d) Write a note on : (any 1 out of 2) 5

(1) Explain - Internal structure of Nephrolepis root.

**OR**

(2) Explain - Asexual reproduction in Nephrolepis.

5 (a) Answer the following Objective type questions : 4

(1) Which species of Cycas is known as living fossils?

(2) Give the name of algae which is present in Cycas root.

(3) Which type of polyembryony seen in Cycas?

(4) Archegonia of Cycas possess \_\_\_\_\_ neck cells.

(b) Answer in brief : (any 1 out of 2) 2

(1) Write a note on - Coralloid root.

**OR**

(2) Write a note on - Bulbils.

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

(1) Draw a labelled diagram of internal structure of Cycas leaflet.

**OR**

(2) Describe male cone of Cycas.

(d) Write a note on : (any 1 out of 2) 5

(1) Explain - Internal structure of Cycas ovule.

**OR**

(2) Describe male gametophyte of Cycas.

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