



JAP-003-2011006

Seat No. _____

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

November - 2019

BOTANY : B-101

(PLANT DIVERSITY)

Faculty Code : 003

Subject Code : 2011006

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

[Total Marks : 70

- Instructions :** (1) This question paper contains five questions. All questions are compulsory
(2) Write answers of all the questions in main answer sheet.
(3) Draw neat and labelled diagrams wherever necessary
(4) Figures to the right side indicated full marks for the questions.

- 1 (A) Answer the following objective type questions : 4
(1) What is Olericulture
(2) What is phycology?
(3) Who proposed five kingdom classification of living organisms?
(4) The attached form of Spirogyra consists of modified basal cell which is known as _____
- (B) Answer in brief : (any **one** out of two) 2
(1) Define : Floriculture and Plant Morphology
(2) Draw labelled diagram of Sargassum axis.
- (C) Answer in detail : (any **one** out of two) 3
(1) Describe : Cell structure of Spirogyra
(2) Describe : Anatomy of Sargassum leaf

- (D) Write note on : (any **one** out of two) **5**
- (1) Explain : Whitaker's five kingdom classification
 - (2) Explain : Male and female reproductive structure of Sargassum
- 2** (A) Answer the following objective type questions : **4**
- (1) Define hypha
 - (2) True or false: Mucor is saprophytic fungi
 - (3) The fruiting body of Agaricus is known as _____
 - (4) What is the difference between hypha of Mucor and Agaricus
- (B) Answer in brief : (any **one** out of two) **2**
- (1) Write down any two general characters of Class Zygomycetes
 - (2) Write down any two uses of fungi as medicine
- (C) Answer in detail : (any **one** out of two) **3**
- (1) Describe : General characters of class Basidiomycetes
 - (2) Describe : Asexual reproduction in Mucor
- (D) Write note on : (any **one** out of two) **5**
- (1) Explain : Sexual reproduction in Mucor
 - (2) Explain : Anatomy of basidiocarp of Agaricus
- 3** (A) Answer the following objective type questions : **4**
- (1) What is alternation of generation?
 - (2) Which is the dominant generation in life cycle of Bryophyta?
 - (3) Which types of rhizoids are seen in Riccia?
 - (4) Write down the classification of Riccia

- (B) Answer in brief : (any **one** out of two) **2**
- (1) Write general characters of class Hepaticopsida
 - (2) Draw labelled diagram of Riccia Archegonia
- (C) Answer in detail : (any **one** out of two) **3**
- (1) Describe vegetative reproduction by gemma cup in Riccia
 - (2) Draw labelled diagram of Riccia Thallus
- (D) Write note on : (any **one** out of two) **5**
- (1) Explain : Sporophyte of Riccia
 - (2) Explain : Sexual reproduction in Riccia
- 4 (A) Answer the following objective type questions : **4**
- (1) Which generation is dominant in life cycle of Pteridophyta?
 - (2) The heart shaped gamatophytic generation of fern is called _____
 - (3) Write down common name of Nephrolepis
 - (4) Write down the parts of Nephrolepis plant
- (B) Answer in brief : (any **one** out of two) **2**
- (1) Draw labelled diagram of Nephrolepis leaflet
 - (2) Draw labelled diagram of Nephrolepis root
- (C) Answer in detail : (any **one** out of two) **3**
- (1) Describe: Anatomy of Nephrolepis rachis
 - (2) Describe: External character of Nephrolepis
- (D) Write note on : (any **one** out of two) **5**
- (1) Explain:- Sporophytic generation of Nephrolepis
 - (2) Explain : Gamatophytic generation of Nephrolepis

- 5 (A) Answer the following objective type questions : 4
- (1) Scientific name of Sago palm is _____
 - (2) Define gymnosperm
 - (3) Why Cycas is called dioecious plant?
 - (4) How many types of roots are found in Cycas?
Name them.
- (B) Answer in brief : (any **one** out of two) 2
- (1) Describe : Corolloid root?
 - (2) Draw labelled diagram of cycas root
- (C) Answer in detail : (any **one** out of two) 3
- (1) Describe anatomy of male cone of cycas (L.S.)
 - (2) Describe : External character of Cycas
- (D) Write note on : (any **one** out of two) 5
- (1) Explain : Female cone of Cycas
 - (2) Explain : Anatomy of Cycas leaflet
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