



**PBK-003-001104**

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

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

**November / December - 2018**

**B-101 : Botany**

*(Plant Diversity)*

*(Old Course)*

**Faculty Code : 003**

**Subject Code : 001104**

Time :  $2\frac{1}{2}$  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 indicate total marks for the question.

1 Answer the following objective type questions. **20**

All are compulsory.

- (1) Which fungi is rich source of vitamins ?
- (2) Most primitive member of plant kingdom is\_\_\_\_\_.
- (3) Write the sequence of taxonomic categories.
- (4) In which rock fossils are most commonly preserved ?
- (5) Which is dominant generation in pteridophyta ?
- (6) Which algae is contain diplontic life cycle ?
- (7) Eight celled structure of Volvox is called \_\_\_\_\_.

- (8) Define : Apospory.
- (9) Endodermis of Selaginella stem is modified into\_\_\_\_\_.
- (10) The venation pattern of Fan palm is \_\_\_\_\_.
- (11) A sickle shaped leaf is termed as \_\_\_\_\_.
- (12) Define : Quincunial.
- (13) When the flower is Hypogynous, ovary is \_\_\_\_\_.
- (14) In taxonomy seed is termed as \_\_\_\_\_.
- (15) The empty bract of grasses is called as \_\_\_\_\_.
- (16) Naked seed mean \_\_\_\_\_.
- (17) Inverted 'Omega' shaped arrangement of vascular bundles is found in \_\_\_\_\_.
- (18) Ptyxis in Cycas is coiled known as \_\_\_\_\_.
- (19) Why Cycas is living Fossil ?
- (20) Negatively geotropic roots of Cycas known as\_\_\_\_\_.

**2** (a) Answer in brief : (any 3 out of 6)

**6**

- (1) Write four characters of kingdom Chromista.
- (2) Agar-Agar is obtained from which Algae ?
- (3) Define : Button Stage.
- (4) Which type of stele is found in Selaginella ?
- (5) Enlist the position of ovary.
- (6) Write Floral formula of Euphorbiaceae.

(b) Answer in detail : (any 3 out of 6) 9

- (1) What are Fossils ?
- (2) Write note on harmful effects of Fungi.
- (3) To draw single Gemma.
- (4) To draw L.S. of Selaginella Cone
- (5) Describe Special Inflorescence.
- (6) Give the F.F. and F.D. of Papilionaceae.

(c) Write a note on following questions with diagram : 10

(any 2 out of 5)

- (1) Explain sexual reproduction in Volvox.
- (2) Describe: T.S. of Gills in Agaricus.
- (3) Explain Sporophyticphase of the Marchantia.
- (4) Describe Gametophyticphase in Selaginella  
(Male-Female both).
- (5) Explain types of Placentation.

3 (a) Answer in brief : (any 3 out of 6) 6

- (1) How is vegetative phase of Myxomycetae ?
- (2) What is Mycorrhiza ?
- (3) Which is fertile part in Sargassum ?
- (4) Write subdivision of opposite phyllotaxy.
- (5) Define : Cordate shape leaf.
- (6) Define : Entire leaf margin.

(b) Answer in detail : (any 3 out of 6) **9**

- (1) How is fungi utilize in production of alcoholic beverages ?
- (2) How is algae utilize in biological research ?
- (3) To draw only T.S. of Marchantia thallus.
- (4) Describe Palmate compound leaf.
- (5) Give the types of attachment of Anther with filament.
- (6) To draw only types of Aestivation.

(c) Write a note on following questions with **10**  
diagram (any 2 out of 5)

- (1) Describe the classification of five kingdom systems.
- (2) Explain Cymose Inflorescence.
- (3) To draw only diagram of Cycas leaflet.
- (4) Write classification, F.F. and F.D. of Poaceae.
- (5) Describe types of Stipules.

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