



**BBA-003-001306**

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

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

**July – 2021**

**Botany : Paper - B-301**

*(Plant Diversity & Bioresources)*

*(Old Course)*

**Faculty Code : 003**

**Subject Code : 001306**

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

[Total Marks : 70

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

**1 Objective type questions :**

**20**

- (1) What is phycology?
- (2) True or false: cyanobacteria are prokaryotic.
- (3) Write down example of motile unicellular algae.
- (4) *Batrachospermum* is also called \_\_\_\_\_.
- (5) What is mycology?
- (6) Write down name of hypha found in fungi.
- (7) *Pythium* belongs to which sub-division?
- (8) True or false: Apothecium of *Peziza* is cup shape.
- (9) Anatomy of *Anthoceros* thallus contains colonies of which algae?
- (10) Write down name of sex organs in bryophyta.
- (11) *Anthoceros* commonly known as \_\_\_\_\_.

- (12) How many peristome teeth are found in *Funaria* sporophyte?
- (13) Plant body of pteridophyta contains how many parts? Name them.
- (14) Adiantum also known as \_\_\_\_\_
- (15) *Pinus* plant belongs to which division ?
- (16) Scientific name of coconut is \_\_\_\_\_
- (17) Scientific name of katha, is \_\_\_\_\_
- (18) *Lantana indica* belongs to which family?
- (19) Who proposed Genera Plantarum?
- (20) What is shower of golden dust?

- 2** (A) Answer in brief : (any **three**) **6**
- (1) Describe vegetative body of *Pythium*
  - (2) Write floral formula of family Combrataceae
  - (3) Labelled diagram of *Funaria* axis
  - (4) What is heterospory?
  - (5) What is telome?
  - (6) Write down classification of Nostoc
- (B) Answer in brief : (any **three**) **9**
- (1) Describe reproduction through heterocyst in Nostoc
  - (2) Write down importance of Bryophyta
  - (3) Write down classification with reason of fungi *Peziza*
  - (4) Describe thallus of *Batrachospermum*
  - (5) Write down external morphology of Adiantum
  - (6) Draw labelled diagram of *Sellaginella* stem.
- (C) Answer in detail : (any **two**) **10**
- (1) Explain mushroom cultivation
  - (2) Explain sexual reproduction in *Pythium*
  - (3) Explain Sporophyte of Anthoceros
  - (4) Explain types of stele
  - (5) Explain sporophyte of Funaria

- 3 (A) Answer in brief : (any **three**) **6**
- (1) Give classification with reason of Pinus
  - (2) Define telome and mesome
  - (3) Write down uses of Henna
  - (4) Write down any two harmful effects of Algae
  - (5) Draw labelled diagram of Adiantum leaflet
  - (6) Define Hormogonia.
- (B) Answer any **three** : **9**
- (1) Describe apothecium of *Peziza*.
  - (2) Give floral formula and floral diagram of family Commalinaceae
  - (3) Draw labelled diagram of *Pinus* Leaflet.
  - (4) Describe wood catechu (katha).
  - (5) Describe classification with reason of family *Apocynaceae*.
  - (6) Describe Chantratia stage of algae Batrachospermum.
- (C) Answer in detail : (any **two**) **10**
- (1) Explain : Family Combrataceae
  - (2) Explain : Male and female cone of Pinus
  - (3) Explain : Telome theory
  - (4) Explain : Sexual reproduction in Adiantum
  - (5) Explain : Coconut in detail.
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