

PBA-003-001306 Seat No. _____

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

November / December - 2018

Botany : B - 301 (Plant Diversity and Bio-Resources) (Old Course)

> Faculty Code: 003 Subject Code: 001306

e : 2	$\frac{1}{2}$ Hours] [Total Marks : 70
ruct	ions: (1) This question paper contains three questions, all are compulsory.
	(2) Draw neat and labelled diagram wherever
	necessary.
	(3) Figures to the right indicate marks.
Writ	te answer in very short.
(1)	The cell wall in algal cell consist of
(2)	What is the function of flagella?
(3)	Which algae is present of cytocarp?
(4)	Give the scientific name of edible fungi?
(5)	Pythim belongs to which class?
(6)	Which fungi is found in damping of seedling?
(7)	Write the parts of sporophyte.
(8)	The number of teeth in each ring of peristome in
	funaria is
(9)	What is the function of epidermis?
(10)	The most primitive types of stele is
(11)	Give two examples of heterospory?
(12)	Who proposed Telome theory?
(13)	Mesophyll tissue of pinus needle is made up of
(14)	Which fern is commonly known as maiden hair fern?
(15)	In which division ovules are found naked?
	Writ (1) (2) (3) (4) (5) (6) (7) (8) (10) (11) (12) (13) (14)

- (16) Write the scientific name of turmeric? (17) Tinospora cordifolia belongs to which family? (18) Give the scientific name of apocynaceae family. (19) Write the use of coconut oil. (20) Give the scientific name of Heena. Write any three out of six. 6 (1) Give the classification of Nostoc. (2)What is meant by siphonous type of thallus organization? (3)Explain vegetative structure of pythium. (4)Write the habitat of Batrachospermum. What is Heterocyst? (5)Define: Gemmae. (6) Write any three out of six. (b) 9 (1) Describe the cell structure of Nostoc. (2) Write the Asexual reproduction in Bactrachospermum. (3)Describe the ultra structure of Eukaryotic algal cell. **(4)** Describe the structure of Anthoceros of archigonium. Write the Asexual reproduction in Pythium. (5)Describe the external structure of Funaria. (6)
 - (c) Write any **two** out of five.

10

- (1) Describe the sexual reproduction in Batrachospermum.
- (2) Explain the sporophytic structure of Anthoceros.
- (3) Explain the algae causing Biological disturbances.
- (4) Explain ultra structure of Fungal cell.
- (5) Describe sexual reproduction in Pythium.

2

- 3 (a) Write any three out of six.
 - Give classification of Anthoceros.
 - (2) Describe the structure of sporangium of Adiantum.
 - (3) Write the use of Henna.
 - (4) What is Heterospory?
 - (5) Draw the label diagram for L. S of female cone of pinus.
 - (6) Explain the anatomy of Adiantum root.
 - (b) Write any three out of six.

9

6

- (1) Write the economic importance of Bryophytes.
- (2) Explain the Adiantum prothallus.
- (3) Write the different method of vegetative reproduction in bryophyte.
- (4) Explain the external structure of Pinus.
- (5) Draw floral diagram and floral formula of verbenaceae family.
- (6) Explain male cone of pinus.
- (c) Write any two out of five.

10

- (1) Explain Telome theory.
- (2) What is stele? Describe various types of stellar system found in vascular plants.
- (3) Describe the embryogeny in pinus.
- (4) Explain combretaceae family with floral formula and floral diagram.
- (5) Discuss the theory of rise and fall of gymnosperm.