

JAF-003-001306

Seat No.

B. Sc. (Sem. III) Examination

November - 2019

Botany : B - 301

(Plant Diversity & Bio-Resources) (Old Course)

Faculty Code: 003 Subject Code: 001306

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

[Total Marks: 70

- 1 Answer the following objective type questions. All are compulsory:
 - (1) Define Coenobial form of Algae.
 - (2) Give example of Rhizopodial form of algae.
 - (3) What is Glomerule?
 - (4) What is the name of female reproductive structure in Batrachospermum ?
 - (5) What are the common names often given to Nostoc?
 - (6) How many neck canal cells are present in the neck of the archegonium of Funaria?
 - (7) Which bryophyte is used as surgical pad?
 - (8) Cup shaped fungi's name is?
 - (9) Ascus consists of how many ascospores?
 - (10) Define: fossil
 - (11) Write only floral formula of Menispermaceae.
 - (12) What is Telome?
 - (13) The process of 'syngenesis' in the telome concept is called what?
 - (14) Write the name of Periods of Mesozoic Era.
 - (15) Write note on the name of Periods of Paleozoic Era.
 - (16) Name the species of Pinus from which Chilgoza is obtained?
 - (17) Name the family in which is Versatile anther.
 - (18) Write the floral formula of Verbenaceae.
 - (19) Give the name of edible fungi.
 - (20) Give the botanical name of Flower dye.
- 2 (a) Answer in brief: (any 3 out of 6)

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- (1) Define Dendroid form with example.
- (2) Cystocarp consists of
- (3) Give an account of the occurrence of Nostoc.
- (4) Which part of funaria is parasite?
- (5) Write function of eleter.
- (6) Is Anthoceros symbiosis? Why?

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Ectophloic siphonostele and (1)amphiphloic siphonostele make differ by using only diagrammatic diagram. (2)Draw floral diagram of Brassicaceae with F.F. Give the Botanical name of any three plants of (3)Combretaceae. Write only substele of protostele. (4)Draw floral diagram of Commelinaceae with F.F. (5)(6) Draw the T.S. of Adiantum petiole. Write notes on: (any 2 out of 5) 10 (c) (1) Explain: The methods of reproduction in *Nostoc*. Describe: Ultrastructure of Prokaryotic cell. (2)Classify Apocynaceae with floral formula and F.F. (3)Draw only well labelled diagram of Anthoceros (4)sporophyte. L.S. of *Pinus* female cone (only diagram). (5)3 Answer in brief: (any 3 out of 6) 6 Write two economic importance of Fungi. (2)Write function of Heterocyst. Give formula for fungus Chitin. (3)(4) Define: Lomasome. Why Adiantum is commonly known as 'Maiden (5)hair fern'? Define: Ethnobotany. Answer in detail: (any 3 out of 6) 9 (b) Describe: wood dye. (1)(2)Write note on Batrachospermum cell structure. Write note on characteristics of ascospore. (3)(4)Describe: Dictyostele. (5)Write merits of Telome Theory. (6) Write F.F. of Cassurinaceae. (c) Write notes on: (any 2 out of 5) 10 Describe: Algae causing Biological disturbances. (1)(2)Describe: Gametophyte phase of Adiantum. (3)Write economic importance of bryophyte. Pinus Needle (only diagram with labels). (4) Write note on conornic importance of Coconut.

Answer in detail: (any 3 out of 6)

(b)

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