



Sanjay Ghodawat University, Kolhapur

EXM/P/09/00

2019-20

Established as State Private University under Govt. of Maharashtra. Act No XL, 2017

Year and Program: B.Sc, 2019-

School of Science

F.Y B.Sc

20

Course Code: BOS 101

BOTANY I

Semester – Odd (I)

Day and Date: 06.12.19/Friday

End Semester Examination

Time: 3 Hrs., Max Marks: 100

PRN:

Seat No:

Section A Marks out of 20

Section A

10:30 am to 11 am

- Instructions:** 1) All Questions are compulsory.
 2) For MCQs mark/tic (✓) for correct answer. No marks for multiple tics (✓).
 3) Section A should submitted to Jr. Supervisor immediately after first ½ hour.

Q.1 Multiple choice questions.	Marks	Level	CO
	20		
1 _____ and _____ are found as reserve food materials in Phaeophyceae? a. Starch and mannitol b. Starch and pectin c. Starch and agarose d. Starch and mannose	1	L1	2
2 TMV is the full form for _____ a. Tobacco mitigating virus b. Trans multiplicity virus c. Tumor making virus d. Tobacco mosaic virus	1	L1	1
3 Fungus used to relieve labor pain in women is called as _____ a. Gelidium b. Sphagnum c. Ergot d. Agaricus	1	L2	2
4 The enzyme responsible for the lysis of proteins is called as _____ a. Proteolyase b. Proteonase c. Protease d. Nuclease	1	L1	2
5 The symbiotic association of algae and fungi are called as _____ a. Mucor b. Ferns c. Moss d. Lichens	1	L1	1
6 _____ are also called as the amphibian of the plant kingdom a. Pteridophytes b. Bryophytes c. Gymnosperms d. Angiosperms	1	L1	3
7 A special organ of sporophyte that attaches it to the gametophyte is _____ a. Stalk b. Foot c. Seta d. Root	1	L2	3
8 Protonema is a stage in the life cycle of _____ a. Riccia b. Funaria	1	L2	3



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Seat No:

Section B Marks out of 80

11 am to 1.30 pm

Section B

- Q.2 Answer the following 15**
- a) Explain the Lytic and Lysogenic cycle in viral replication with the help of a labeled diagram. 08 L2 1
- b) Describe in detail, bacterial transformation with the help of a well labeled diagram. 07 L2 1
- OR**
- b) Give an account on the economic importance of algae. 07 L1 2
- Q.3 Answer the following 15**
- a) Explain the sexual mode of reproduction in Penicillium with the help of a well labeled diagram.. 08 L2 2
- b) Write a note on the asexual structures and sexual mode of reproduction in Nostoc. 07 L1 2
- OR**
- b) Describe the general characteristics of Myxomycota with the help of suitable examples. 07 L1 3
- Q.4 Answer the following 15**
- a) Elaborate the sexual mode of reproduction in Funaria with the help of a neat labeled diagram. 08 L3 3
- b) Write in brief about the general characteristics of Bryophytes. 07 L3 3
- OR**
- b) Differentiate between Bryophytes and Pteridophytes on the basis of their vegetative structures and growth conditions. 07 L4 3
- Q.5 Answer the following 15**
- a) Compare the cellular organization of roots and stem in Pteridophytes with proper labeled diagrams. 08 L4 4

- | | | | | |
|----|--|----|----|---|
| b) | With the help of suitable diagram sketch the anatomy of stem of Pinus. | 07 | L3 | 4 |
|----|--|----|----|---|

OR

- | | | | | |
|----|--|----|----|---|
| b) | Write a note on the economic importance of Gymnosperms | 07 | L1 | 4 |
|----|--|----|----|---|

Q.6 Write short notes on the following (any Four) **20**

- | | | | | |
|------|---|----|----|---|
| i) | Virus Envelope Coat | 05 | L1 | 1 |
| ii) | Gram Positive Bacteria | 05 | L1 | 1 |
| iii) | Asexual reproduction by Akinetes | 05 | L1 | 2 |
| iv) | Archegonium in Funaria | 05 | L1 | 3 |
| v) | Morphology of Mucor | 05 | L1 | 2 |
| vi) | Strobilus or Male Cone structure in Pteridophytes | 05 | L3 | 4 |