



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

- c. Sphagnum d. All of the above
- 9 Alternation of generation is exhibited by _____ 1 L2 3
 a. Pteridophytes b. Bryophytes
 c. Gymnosperms d. All of the above
- 10 The positive evidence of aquatic ancestry of bryophytes is _____ 1 L2 3
 a. thread like protonema b. Green colour
 c. Some aquatic forms at present d. ciliated sperms
- 11 Male gametophyte in a gymnosperm shows the presence of _____ 1 L1 4
 a. microspore b. megaspore
 c. nucellus d. dyad
- 12 Microsporophyll term is used in gymnosperms to denote _____ 1 L2 4
 a. Male cones b. Female cones
 c. Leaves d. Blades
- 13 Selaginella are commonly called as _____ moss 1 L1 4
 a. spike or club b. horsetail
 c. thalloid d. lycopod
- 14 Which among the following is not true for Bryophytes? 1 L2 3
 a. Water is essential for fertilization b. Archegonium present
 c. Presence of ciliated spores d. Autotrophic sporophyte present
- 15 Which of the following produces seeds but lacks a flower? 1 L1 4
 a. Fungi b. Gymnosperms
 c. Bryophytes d. Pteridophytes
- 16 Pteridophytes are also called as _____ 1 L1 4
 a. Cryptogams b. Phanerogams
 c. Plant Amphibians d. Spermatophytes
- 17 A gymnospermic plant _____ 1 L1 4
 a. bears flowers b. exhibits no vascular tissue
 c. produce seeds in cones d. does not produce seeds in cones
- 18 The dominant generation in a pteridophyte is _____ 1 L2 4
 a. haploid b. diploid
 c. triploid d. gametophytic
- 19 Largest sperms are found in _____ 1 L1 4
 a. Pinus b. Ferns
 c. Cycas d. Cedrum
- 20 Pollination in Angiosperms takes place by _____ 1 L1 4
 a. Wind b. Water
 c. Insects d. All of these



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PRN:

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		
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- | | | | | |
|------|---|----|----|---|
| 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 |