Sanjay Ghodawat University, Kolhapur

2020-21

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

EXM/P/09/00

Year and Program: 2020 /Second Year B.Sc	**School of Science**	**Department: Chemistry**
Course Code: BOS 201	**Course Title: Botany-III**	**Semester : III**
Day : Friday **Date :18.12.2020**	**End Semester Examination**	**Time : 2 Hrs.** **Max Marks : 50**

Instructions: 1) All Questions are compulsory.
2) Draw neat labelled diagrams wherever necessary

		Marks	Bloom's Level	CO
Q.1	**Answer the following (any Two)**–			
a)	With the help of labelled diagrams, elaborate the theories put forward for shoot apical meristem.	8	L2	CO1
b)	Describe seasonal activity of vascular cambium. Also, state the significance of lateral growth in plants.	8	L2	CO1
c)	Write down the general characteristics of Hydrophytes and Xerophytes.	8	L1	CO2
Q.2	**Answer the following (any two) –**			
a)	Define Pollination. Describe the structure of anther and the process of pollen development.	8	L1	CO2
b)	Describe with the help of a diagram the ultrastructure of a mature embryo sac.	8	L3	CO2
c)	Explain the various mechanisms of adaptation in pollination.	8	L3	C03
Q.3	**Answer the following (any two) –**			
a)	What do you understand by Double fertilization? Explain the structure of a monocot seed.	9	L2	CO3
b)	Compare the relationship between embryo and endosperm in a mature seed.	9	L3	CO4
c)	Define Polyembryony. Classify the types of polyembryony found in plants.	9	L4	CO4

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