

STELLA MARIS COLLEGE (AUTONOMOUS) CHENNAI 600 086
(For candidates admitted in during the academic year 2023 – 2024 & thereafter)

B. Sc. DEGREE EXAMINATION, NOVEMBER 2024
BRANCH VI (a) – ADVANCED ZOOLOGY AND BIOTECHNOLOGY
FIRST SEMESTER

COURSE : ALLIED – CORE
PAPER : GENERAL BOTANY-I
SUBJECT CODE : 23BT/AC/GB14
TIME : 3 HOURS

MAX.MARKS:100

Q. No.	SECTION A (20 x 1 = 20 marks)	CO	KL
	I Choose the correct answer		
1	Mycology is the study of a) Algae b) Fungi c) Bryophytes d) Angiosperms	1	1
2.	Fallen stars is known as a) <i>Nostoc</i> b) <i>Rhizopus</i> c) <i>Chara</i> d) <i>Aspergillus</i>	1	1
3.	The inflorescence type found in Euphorbiaceae is a) Head b) Cyathium c) Verticillaster d) Spadix	1	1
4.	Oyster mushrooms are rich in a) Vitamin A& Vitamin C b) Vitamin A& Vitamin E c) Vitamin B& Vitamin C d) Vitamin A& Vitamin D	1	1
5.	The study of soil called as a) Limnology b) Lithology c) Hydrology d) Pedology	1	1
	II State whether true or false:		
6.	<i>Sargassum</i> is a freshwater alga.	1	1
7.	The symptoms of red rot of sugarcane appear on all parts of the plants.	1	1
8.	Gills are seen in the fruit body of <i>Agaricus</i> .	1	1
9.	The ovary is inferior in lamiaceae members.	1	1
10.	<i>Azadirachta indica</i> is used as a Biopesticide.	1	1
	III Fill in the Blanks		
11.	Citrus canker is caused by _____ bacterium.	1	1
12.	Deuteromycetes also can be called as _____.	1	1
13.	Father of Indian Algology is _____.	1	1
14.	Hooded anther is seen in _____ family.	1	1
15.	The number of shield cells in the globule of <i>Chara</i> is _____.	1	1
	IV Match the following		
16.	<i>Azolla</i> - Yellow with halo	1	1
17.	<i>Chara</i> - Mycelium	1	1
18.	<i>Leucas aspera</i> - Biofertilizer	1	1
19.	<i>Rhizopus</i> - Dimorphic branches	1	1
20.	<i>Citrus</i> - Lamiaceae	1	1
Q. No.	SECTION B Answer any 8 of the following in 50 words (8 x 2 = 16 Marks)	CO	KL
21.	Define hypogynous flower	2	2
22.	What is a Globule?	2	2

23.	Mention the characters of hormogonia.	2	2
24.	Name the pathogen and symptoms of leaf curl of papaya.	2	2
25.	Specify the importance of Conceptacle	2	2
26.	Define Verticillaster.	2	2
27.	Assess the salient features of gourd family.	2	2
28.	Trace the uses of Biopesticide.	2	2
29.	What are Conidiophores?	2	2
30.	Define Organic manure.	2	2
Q. No.	SECTION C Answer the following in 200 words (4 x 6 = 24 Marks)	CO	KL
31.	Elaborate the reproduction in <i>Aspergillus</i> . (or)	3	3
32.	Discuss the sexual reproduction of <i>Chara</i> .		
33.	Point out the salient feature of Apocynaceae. (or)	3	3
34.	Explain the symptoms, causal organisms and control measures of citrus canker.		
35.	Create a flow chart on the outline of Bentham and Hooker's Classification. (or)	4	4
36.	Discuss the application of Biofertilizer.		
37.	Enumerate the salient feature of fungi. (or)	4	4
38.	Explain the fruiting body structure of <i>Agaricus</i> .		
Q. No.	SECTION D Answer the following in 1000 words (2 x 20 = 40 Marks)	CO	KL
39.	Illustrate the life cycle on <i>Sargassum</i> with suitable diagrams. (or)	5	5
40.	Discuss the floral characters of Musaceae.		
41.	Elucidate the etiology, pathology, epidemiology and control of red rot of sugarcane and Citrus Canker. (or)	5	5
42.	Elaborate the process of Oyster mushroom cultivation.		
