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

B. Sc. DEGREE EXAMINATION, NOVEMBER 2023
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)	CO	KL
	Fill in the blanks :	CO 1-5	
1.	Heterocysts are found in the genus ----------		
2.	----------is called as the black mold fungus		
3.	Leaf curl of Papaya is transmitted by ----------		
4.	Sagittate anthers are found in ----------		
5.	The upper layer of the earth in which plants grow is called----------		
	True or False		
6.	Amylum stars found in *Chara* are rich in starch		
7.	Coenocytic aseptate mycelium are found in *Aspergillus*		
8.	Canker disease in *Citrus* shows scabby spots on the fruits		
9.	Milky latex is absent in the family Euphorbiaceae		
10.	Oyster mushrooms are cultivated using straw bags		K1
	Match the following:		
11.	Hormogone - *Aspergillus*		
12.	Corolline corona - *Agaricus*		
13.	Pileus - *Nostoc*		
14.	Red rot - Apocynaceae		
15.	Aflatoxin - *Colletotricum*		
	Answer in one line:		
16.	State the placentation found in Cucurbitaceae.		
17.	Define conceptacle		
18.	List the names of biofertilizer (any two)		
19.	Recall Cleistothecium		
20.	State the type of mycelium that forms the basidiocarp.		

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Q. No.	SECTION B Answer the following in two or three sentences. (10 x 2 = 20)		
21.	Distinguish between primary lateral and secondary laterals in *Chara*	CO 1-5	K2
22.	Illustrate *Nostoc* filament		
23.	Write short notes on the structure of *Rhizopus*		
24.	Draw the basidiocarp of *Agaricus*		
25.	Write short notes on the control measures of red rot in sugarcane		
26.	Write short notes on the symptoms seen in leaf curl in Papaya		
27.	Differentiate the male and female flowers in Cucurbitaceae		
28.	Write short notes on the economic importance of Lamiaceae		
29.	Relate green manure in organic farming		
30.	Distinguish the different biofertilizers		
Q. No.	**SECTION C** **Answer the following in about 500 words (4 x 10 = 40)**		
31.	Explain the sexual reproduction seen in *Chara* **or**	CO 1-5	K3 / K3
32.	Describe the life cycle of *Rhizopus*		
33.	Write the causative organism and symptoms of disease Citrus canker **or**		
34.	Describe the salient features of the family Cucurbitaceae		
35.	Describe the habit of *Sargassum* **or**	CO 1-5	K4 / K4
36.	Explain the salient features of fungi		
37.	Explain the characteristic features of Apocynaceae **or**		
38.	Write in detail the role of biofertilizers		
Q. No.	**SECTION D** **Answer the following in about 300 words (4 x 5 = 20)**		
39.	Describe the thallus structure of *Nostoc* **or**	CO 1-5	K5 / K5
40.	Describe the structure of conidiophore of *Aspergillus*		
41.	Explain the Leaf curl disease of *Papaya* **or**		
42.	Write short notes on the preparation of soil		
43.	Write the salient features of Algae **or**	CO 1-5	K6 / K6
44.	Explain the structure of basidiocarp of *Agaricus*		
45.	Outline the Bentham and Hooker system of classification **or**		
46.	Explain the role of biopesticides		

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