

Branch – **APPLIED MICROBIOLOGY**

MAJOR ELECTIVE COURSE – II VOCATIONAL SKILLS IN MICROBIOLOGY

Time: Three Hours

Maximum: 75 Marks

SECTION-A (10 Marks)

Answer **ALL** questions

ALL questions carry **EQUAL** marks

(10 × 1 = 10)

Module No.	Question No.	Question	K Level	CO
1	1	The concept of "Food is Medicine - Medicine is Food" is a core principle of which system of medicine? (a) Ayurveda (b) Siddha (c) Unani (d) Allopathic	K1	CO1
	2	Who is considered the father of Siddha medicine? (a) Agasthiyar (b) Thirumoolar (c) Bogar (d) Yugimuni	K2	CO1
2	3	Spirulina is a good source of: (a) Fiber (b) Protein (c) Carbohydrates (d) All of the above	K1	CO2
	4	Find the incorrect statement (a) Agar-agar is produced from <i>Gracilaria</i> (b) <i>Chlorella</i> is used in space food (c) Mannitol is a food reserve of Rhodophyceae (d) Algin is produced by algae	K2	CO2
3	5	What is the purpose of using legumes in organic farming? (a) To increase soil acidity (b) To decrease soil acidity (c) To fix atmospheric nitrogen (d) To deplete nitrogen from the soil	K1	CO3
	6	How are weeds are controlling in organic farming (a) Mulching (b) Pesticides (c) Herbicides (d) Chemical Pesticides	K2	CO3
4	7	Explanation for FDA (a) Food and Drug audit (b) Food and Drug Administration (c) Food and Diagnosis Administration (d) Food and Drug Authority	K1	CO4
	8	What are the documents mandatory to enroll in a clinical research study? (a) Protocol (b) Case report form (c) Concert form (d) all the above	K2	CO4
5	9	How many SDGs are there? (a) 15 (b) 17 (c) 18 (d) 21	K1	CO5
	10	Any contaminated components that seep into the soil, filtration, and are transferred into the underground reservoir are referred to as (a) Water Pollution (b) Noise Pollution (c) Land Contamination (d) Air pollution.	K2	CO5

Cont...

Module No.	Question No.	Question	K Level	CO
1	11.a.	Exemplify the scope of medicinal plant cultivation for Indian medical system.	K3	CO1
		(OR)		
	11.b.	Explain the applications of medicinal plants for cosmetics preparation.		
2	12.a.	Enumerate the cultivation practice of Spirulina.	K2 & K4	CO2
		(OR)		
	12.b.	"Microalgae is the future for Biofuel Production"- Justify the statement.		
3	13.a.	Exemplify the need of organic farming in horticulture.	K3	CO3
		(OR)		
	13.b.	Write notes on the production of Vermi wash preparation		
4	14.a.	Enlist the function, roles and responsibilities of FDA.	K3	CO4
		(OR)		
	14.b.	Enlist the importance of preclinical and clinical analysis.		
5	15.a.	Explain the outlines of biohydrogen production form Microbial sources.	K4	CO5
		(OR)		
	15.b.	Enumerate the role of enzymes in bioethanol production.		

SECTION -C (30 Marks)

Answer ANY THREE questions

ALL questions carry EQUAL Marks

(3 × 10 = 30)

Module No.	Question No.	Question	K Level	CO
1	16	Describe in detail about principle, scope and importance of Ayurveda medicine.	K3	CO1
2	17	Write an elaborate account on applications of microalgae cultivation.	K3	CO2
3	18	Illustrate the production technology of Vermi compost and add notes for its significance in agriculture.	K3	CO3
4	19	Describe in detail about the important committees involved in the approval of clinical in an organization.	K4	CO4
5	20	Give a details account on the application of microorganisms to achieve the Sustainable Development Goals.	K5	CO5

Z-Z-Z

END