

**MICROBIOLOGY & IMMUNOLOGY**

**Maximum: 75 Marks**

**ALL questions carry EQUAL marks** (10 × 1 = 10)

Module No.	Question No.	Question	K Level	CO
1	1	Who is the father of Microbiology? a. Darwin                                  b. Leeuwenhoek c. Lamark                                 d. De Vries	K1	CO1
	2	_____ is the culture medium which allows the growth of particular variety of bacteria. a. Differential medium                  b. Blood medium c. Transport medium                  d. Chocolate medium	K2	CO2
2	3	Choose the cheapest method of dehydration. a. sun drying                              b. heating c. radiation                                d. pickling	K1	CO1
	4	Relate the ropiness of bread with the following. a. <i>Pseudomonas</i> b. <i>Bacillus subtilis</i> c. <i>B.liquiniform</i> d. None of the above	K2	CO2
3	5	Choose the symbiotic association between fungus and plant roots. a. Mycorrhiza                              b. Lichens c. Hyphae                                 d. All the above	K1	CO1
	6	Relate the <i>Bacillus thuringiensis</i> with the following. a. Insecticide                              b. Microbial pesticides c. Herbicide                                d. Fungicide	K2	CO2
4	7	Which one of the following is produced the immunity in Cell mediated immunity? a. Erythrocytes                            b. Lymphocytes c. Basophil                                 d. Esonophill	K1	CO1
	8	_____ is the antibacterial substance, which is rich in Human milk. a. Heptens                                  b. Lactoferritin c. Lactobacillus                          d. Interferons	K2	CO2
5	9	Which Immunoglobulin is related with hypersensitivity type I ? a. Ig.A                                        b.Ig G c. Ig E                                        d.Ig D	K1	CO1
	10	Relate the graft that takes place within the same individual. a. Autograft                                b. Xenograft c. Allograft                                 d. Isograft	K2	CO2

**Cont...**

**SECTION - B (35 Marks)**

Answer ALL questions;

ALL questions carry EQUAL Marks (5 × 7 = 35)

Module No.	Question No.	Question	K Level	CO
1	11.a.	Outline the scope of Microbiology.	K3	CO3
		(OR)		
	11.b.	Explain the structure of <i>E.coli</i> bacteria.		
2	12.a.	Identify the applications of Probiotics.	K3	CO3
		(OR)		
	12.b.	Identify the causative agents and symptoms of Salmonellosis.		
3	13.a.	List out the role of VAM fungi in agriculture.	K4	CO4
		(OR)		
	13.b.	Distinguish an aerobic and anaerobic process of waste water treatment.		
4	14.a.	Distinguish the innate immunity from the acquired immunity.	K4	CO4
		(OR)		
	14.b.	List the different types of the cells immune system.		
5	15.a.	Explain an active immunization.	K5	CO5
		(OR)		
	15.b.	Explain the Type III hypersensitivity.		

**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	Classify the different culture techniques.	K4	CO4
2	17	Analyze the biochemical changes takes place during food spoilage.	K4	CO4
3	18	Examine the role of Bio fertilizer.	K4	CO4
4	19	Spleen is the secondary lymphoid organ. Justify.	K5	CO5
5	20	Explain the structure and functions of Ig G.	K5	CO5

Z-Z-Z END