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Reg. No.: .....

Name:.....

**University of Kerala**

First Semester Degree Examination, November 2024

Four Year Under Graduate Programme

Multi Disciplinary Course

**MICROBIOLOGY****UK1MDCMBYIOI - MICROBES IN DAILY LIFE**

Academic Level: 100-199

**Time: 1½ Hours****Max. Marks: 42****Part A.****Answer All Questions. 1 Mark Each. Objective Type Questions.****(Cognitive Level: Remember/Understand)****6 Marks. Time: 6 Minutes**

<b>Qn. No.</b>	<b>Question</b>	<b>Cognitive Level</b>	<b>Course Outcome(CO)</b>
1.	Give examples for thermophilic microbes	Remember	CO1
2.	Name microorganisms found on human skin	Remember	CO1
3.	Name the microorganisms used in dairy industry	Remember	CO2
4.	Application of antibiotics inhibit the growth of which group of microorganisms	Understand	CO3
5.	Describe the role of yeast in wine production	Understand	CO4
6.	Name the primary bacteria used to make yoghurt.	Understand	CO4

**Part B.****Answer All Questions. 2 Marks Each. Short Answer Questions.****(Cognitive Level: Understand/Apply/Create)****8 Marks. Time: 24 Minutes**

<b>Qn. No.</b>	<b>Question</b>	<b>Cognitive Level</b>	<b>Course Outcome(CO)</b>
7.	Describe the main types of microorganisms found in deep sea environments.	Understand	CO1
8.	Evaluate the role of lactic acid bacteria in inhibiting the growth of spoilage organisms during the fermentation of sauerkraut and the implications for food safety.	Evaluate	CO4
9.	Describe the key roles that beneficial microorganisms play in promoting agriculture.	Understand	CO2
10.	Describe the causative agent of botulism and how it produces its harmful effects in the human body.	Understand	CO3

**Part C.**

**Answer All Questions. 7 Marks Each. Choosing among options within each question**

**Long Answer Questions.**

**(Cognitive Level: Understand/Evaluate)**

**28 Marks. Time: 60 Minutes**

<b>Qn. No.</b>	<b>Question</b>	<b>Cognitive Level</b>	<b>Course Outcome (CO)</b>
11.	A)Discuss the different types of microorganisms found in air.	Understand	CO1
	<b>OR</b> B)Discuss the diversity of microorganisms present in the human body.	Understand	CO1
12.	A)Describe the role of microorganisms in the fermentation and production of dairy products.	Understand	CO2
	<b>OR</b> B)Describe the role of microorganisms in environmental microbiology, focusing on their contributions to nutrient cycling, bio degradation, and ecosystem health.	Understand	CO2
13.	A)Design a new wine blend that incorporates unique grape varieties and outline the steps you would take to achieve the desired flavor profile and aroma.	Create	CO4
	<b>OR</b> B)Imagine you are tasked with creating a new type of cheese. What unique ingredients and processes would you use to develop its flavor, texture, and appearance?	Create	CO4
14	A)If a confirmed Nipah virus case is identified, what steps should public health officials take to effectively trace contacts and prevent further transmission within the community?	Apply	CO3
	<b>OR</b> B)Describe Typhoid, focusing on its causative agent, transmission methods, and symptoms.	Understand	CO3