**First Semester FYUGP Degree Examination November 2024**

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| **University of Kerala** | | |
| Discipline |  | **Microbiology** |
| Course Code |  | **UK1MDCMBY101** |
| Course Title |  | **Microbes in Daily Life** |
| Type of Course |  | **MDC** |
| Semester |  | **1** |
| Academic Level |  | **100-199** |
| Total Credit |  | **Total Credit: 3** |

**Time: 1 Hr 30 Min Total : 42 Marks**

**Part A.**

**Objective Type Questions. Answer All Questions. 1 Mark Each.**

**6 Marks. Time: 6 Minutes**

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

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| **Qn.**  **No.** | **Question** | **Cognitive Level** | **Course**  **Outcome**  **(CO)** | **Module** |
| 1. | Name an airborne infection caused by Microorganism | Remember | CO1 | 1 |
| 2. | Name the organism commonly present in milk and milk products | Remember | CO4 | 4 |
| 3. | Name the causative organism of nail infection. | Remember | CO3 | 3 |
| 4. | Name one thermophilic organism. | Remember | CO1 | 1 |
| 5. | Name the causative organism of COVID-19. | Remember | CO3 | 3 |
| 6. | Expand SCP give any one example of SCP | Remember | CO4 | 4 |

**Part B.**

**Short Answer Questions. Answer All Questions. 2 Marks Each.**

**8 Marks. Time: 24 Minutes**

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

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| **Qn.**  **No.** | **Question** | **Cognitive Level** | **Course**  **Outcome**  **(CO)** | **Module** |
| **7.** | How do microbes adapt to extreme environments like deserts?. | Understand | CO1 | 1 |
| 8. | Discuss the role of dairy microbiology in cheese production. | Understand | CO2 | 2 |
| 9. | Discuss the role of hygiene practices in preventing the transmission of Traveler's diarrhea. | Understand | CO3 | 3 |
| 10. | How can the knowledge of transmission routes of Dengue fever inform community health initiatives? | Understand | CO3 | 3 |

**Part C.**

**Long Answer Questions. Answer All Questions. 7 Marks Each.**

**28 Marks. Time: 60 Minutes**

**Choosing among options within each question**

**(Cognitive Level: Understand)**

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| **Qn.**  **No.** | **Question** | **Cognitive Level** | **Course**  **Outcome**  **(CO)** | **Module** |
| 11. | A)Discuss the sources of microorganisms found in air and their importance in both indoor and outdoor environments. | Understand | CO1 | 1 |
| OR | | | |
| B)Explain the microbial diversity found in soil and its significance for ecosystem health and agriculture. | Understand | CO1 | 1 |
| 12. | A)Explain typhoid fever including their causative organisms, transmission routes and clinical symptoms. Highlight the importance of public health interventions in managing the diseases. | Understand | CO3 | 3 |
| OR | | | |
| B)Examine the immunization schedule for children, detailing the recommended vaccines, their purposes, and the role of healthcare providers. | Understand | CO3 | 3 |
| 13. | A)What are the key microorganisms involved in the fermentation of dairy products like yogurt, butter, and cheese? What are the health benefit of these fermented diary products? | Understand | CO4 | 4 |
| **OR** | | | |
| B)Define Fermented Vegetable? Give a note on : Tempeh, Sauerkraut, Kimchi. | Understand | CO4 | 4 |
| 14 | A)Describe the role Microbes in Agriculture with reference to Biofertilizer and biopesticide production | Understand | C01 | 1 |
| **OR** | | | |
| B)What are the causative organisms of Nipah and Dengue, and how do their symptoms and treatments differ? | Understand | CO1 | 1 |