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| **UniversityofKerala** | | |
| Discipline:**Biotechnology** |  | Time:1 Hour 30 Minutes (90 Mins.) |
| CourseCode:UK1MDCBIT100 |  | TotalMarks:42 |
| CourseTitle:Emerging pandemics & Infectious diseases |  |  |
| TypeofCourse:MDC |  |  |
| Semester:1 |  |  |
| AcademicLevel:100-199 |  |  |
| TotalCredit:3,Theory:3Credit, Practical:0Credit |  |  |

**Part A.6Marks**.Time: 5Minutes

ObjectiveType. 1MarkEach.AnswerAllQuestions

(CognitiveLevel: Remember/Understand)

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| **Qn.**  **No.** | **Question** | **Cognitive**  **Level** | **Course**  **Outcome(CO)** |
| 1. | **Define** a pandemic. | Remember | CO1 |
| 2. | Recall a bacterial zoonotic disease spread from cattle | Remember | CO1 |
| 3. | Explain the concept of herd immunity in managing pandemics. | Understand | CO2 |
| 4. | Identify a Dermatotrophic Viral Diseases | Understand | CO3 |
| 5. | List out infectious diseases based on their mode of transmission | Understand | CO3 |
| 6. | Define personal protective equipment (PPE) | Understand | CO4 |

**PartB.8Marks**.Time: 24Minutes

Short Answer.2MarksEach.AnswerAllQuestions

(CognitiveLevel:Understand/Apply)

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| **Qn.**  **No.** | **Question** | **Cognitive**  **Level** | **Course**  **Outcome(CO)** |
| 7. | Discuss the importance of vaccination in infection prevention and control. | Understand | CO2 |
| 8. | Explain how poor sanitation contributes to the spread of infectious diseases. | Understand | CO4 |
| 9. | Model a decontamination strategy in a laboratory environment where pathogenic bacteria handled | Apply | CO1 |
| 10. | Select a personal protective measure based on disease vectors to advice on during a travel to an endemic region | Apply | CO3 |

**Part C.28 Marks**.Time: 60Minutes

Long Answer.7Marks Each.Answer all 4questions, choosing among options within each question.

(CognitiveLevel:Apply/Analyse/Evaluate/ Create)

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| Qn.  No. | Question | Cognitive  Level | Course  Outcome(CO) |
| 11. | A. **Organize an** infection control protocol in a healthcare facility. Describe the steps you would take to control the infection.  OR  B**. Make use of**  hand hygiene practice in preventing hospital-acquired infections and explain why a good output is often low in preventing the spreading of diseases even if uses PPEs | Apply | CO4 |
| 12. | **A. Frequent outbreak of Cholera occurred in an Urban area. Assume an urban situation and analyse the critical risk factors that propagate the cholera outbreak in the area**  OR  B. **Analyse how t**he members of several households developed typhoid fever shortly after a new cook started to work there. Discuss some management strategies to control spreading of the disease and further outbreak | Analyse | CO3 |
| 13. | A. **Judge** the importance of early detection and reporting of infectious diseases in improving infection control measures with examples  OR B.**The twenty-first century has witnessed a wave of severe infectious disease outbreaks, not least the COVID-19 pandemic. Evaluate the critical risk factors involved in the emergence and re-emergence of global pandemics** | Evaluate | CO1 |
| 14. | A**. Plan** an awareness program to educate common man on over usage of antibiotics in various clinical and non clinical areas and its impact on disease management  OR  B. A group of overseas travellers is planning to visit a tropical Country. Plan an awareness programme about precautionary measures to be takes where frequent outbreaks of vector borne disease happened | Create | CO2 |

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| **Cognitive Level** | **Marks** | **Percentage** |  | **Course Outcomes** | **Marks** | **Percentage** |
| Remember | 2 | 4.8 |  | CO1 | 11 | 26.1 |
| Understand | 8 | 19.0 |  | CO2 | 10 | 23.8 |
| Apply | 11 | 26.2 |  | CO3 | 11 | 26.1 |
| Analyse | 7 | 16.7 |  | CO4 | 10 | 23.8 |
| Evaluate | 7 | 16.7 |  |  |  |  |
| Create | 7 | 16.7 |  |  |  |  |
| **TOTAL** | **42** | **100** |  | **TOTAL** | **42** | **100** |