Reg.No. \_\_\_\_\_\_\_\_\_\_\_\_\_



**End Semester Examination – Nov / Dec – 2019**

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| **Code :** | **14BT3021** | **Duration :** | **3hrs** |
| **Sub. Name :** | **MICROBIAL PATHOGENESIS** | **Max. Marks :** | **100** |

**ANSWER ALL QUESTIONS (5 x 20 = 100 Marks)**

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| **Q. No.** | **Sub Div.** | **Questions** | **Course**  **Outcome** | **Marks** |
| 1. | a. | Appraise the clinical manifestations of filariasis and the responsible vectors. Add a note on their diagnostic methods. | CO3 | 10 |
| b. | What are edible vaccines and the plant part(s) best suited for expressing antigenic transgene. Report on the currently researched plant vaccines. Add a note on the benefits of edible vaccines. | CO2 | 10 |
| (OR) | | | | |
| 2. | a. | Categorize the two general types of exotoxins by citing suitable examples for each type with their mechanism of action. | CO1 | 10 |
| b. | Microbes are able to resist immunological clearance. Substantiate with at least one specific example for each mechanism. | CO2 | 10 |
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| 3. | a. | Describe the pathogenesis, diagnosis and treatment of Kala azar. | CO3 | 10 |
| b. | Highlight the role of any two vectors in the transmission of infective diseases in humans. | CO1 | 10 |
| (OR) | | | | |
| 4. | a. | Enumerate the virulence factors responsible for the pathogenicity of *P.aeruginosa*. Add a note on their diagnosis and preventive measures. | CO3 | 12 |
| b. | Appraise the role of vaccine adverse event reporting system (VAERS). | CO2 | 8 |
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| 5. | a. | Explain the significance of bacteriocin typing in health care industries. | CO3 | 10 |
| b. | Describe the clinical pathogenesis and preventive measures of Respiratory Syncytial Virus. | CO1 | 10 |
| (OR) | | | | |
| 6. | a. | Summarize the clinical manifestations of *Streptococcus pneumoniae* and their diagnostic methods. | CO3 | 10 |
| b. | Comment on the importance of infectious agents in community with appropriate examples. | CO1 | 10 |
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| 7. | a. | Describe the mode of transmission, symptoms of dengue fever and their preventive measures. | CO3 | 12 |
| b. | Relate quorum sensing with biofilm in health care industry. | CO4 | 8 |
| (OR) | | | | |
| 8. | a. | Enumerate the different types of vaccines with suitable examples. | CO2 | 12 |
| b. | Multi Drug Resistant Bacteria is a public threat – Substantiate. | CO2 | 8 |
|  | | **Compulsory**: |  |  |
| 9. | a. | Explain the virulence factors responsible for gastric ulcer caused by *H. pylor* and their laboratory diagnosis. | CO3 | 12 |
| b. | Discuss the characteristics of bacterial toxin mediated diseases with examples. | CO1 | 8 |