

BACHELOR OF SCIENCE (B.Sc. III) FIFTH SEMESTER
B.Sc. 3531 - MICROBIOLOGY : PAPER-I (Medical Microbiology)

P. Pages : 2

Time : Three Hours



GUG/W/18/1318

Max. Marks : 50

Note : 1. All questions are compulsory and carry equal marks.

1. Write different stages of infections diseases. 10

OR

Explain exogenous and endogenous sources of infection. 10

2. Explain in detail pathogenicity and factors responsible for virulence. 10

OR

Discuss in detail cultural characteristics, pathogenicity, laboratory diagnosis of Mycobacterium tuberculosis. 10

3. a) Explain epidemic, endemic and pandemic diseases. 2½

b) Add a note on susceptibility of host. 2½

c) Differentiate between pathogenicity and virulence. 2½

d) Discuss about pathogenesis of chikungunya virus. 2½

OR

e) Discuss in short methods for control of communicable diseases. 2½

f) Describe in short modes of transmission with respect to airborne transmission. 2½

g) Describe ID₅₀, LD₅₀. 2½

h) Write the diseases of digestive tract with causative agents. 2½

4. a) Discuss pathogenesis with respect to bacteremia and Pyaemia. 2½

b) Describe different reservoirs of infections. 2½

c) What are factors responsible for invasiveness? 2½

d) Enlist three diseases of nervous system and names of causative agents. 2½

OR

e) Describe in short stages of infections diseases. 2½

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| f) | Write note on portable of entry. | 2½ |
| g) | Add a note on variation of virulence. | 2½ |
| h) | Write about chikungunya virus. | 2½ |

5. Attempt any ten.

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| a) | Define convalescence. | 1 |
| b) | Write the names of bacteria which constitutes normal flora of Skin. | 1 |
| c) | What are communicable diseases? | 1 |
| d) | Write any two etiological agents of foodborne diseases. | 1 |
| e) | What are carriers? | 1 |
| f) | Name two waterborne diseases. | 1 |
| g) | What is enterotoxin? | 1 |
| h) | Write the name of exotoxin producing bacteria. | 1 |
| i) | Who discovered vaccination? | 1 |
| j) | Write the name of disease caused by plasmodium. | 1 |
| k) | Write full form of HIV. | 1 |
| l) | Write the causative agents of lymphatic disease. | 1 |
