

[This question paper contains 2 printed pages.]

Your Roll No.....

Sr. No. of Question Paper : 5791

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Unique Paper Code : 2534001202

Name of the Paper : Microbes in Infectious Diseases

Name of the Course : **B.Sc. (Hons.) Microbiology**

Semester : VI (UGCF)

Duration : 2 Hours

Maximum Marks : 60

Instructions for Candidates

1. Write your Roll No. on the top immediately on receipt of this question paper.
2. Attempt any **five** questions. **All** questions carry equal marks.

1. Explain the following terms (**any 6**):

2 x 6 = 12

- a) Reservoir
- b) Virulence factor
- c) Hapten
- d) Opportunistic infection
- e) Incubation period
- f) Vertical transmission
- g) Adjuvant

2. Differentiate between the following (**any 3**):

4 x 3 = 12

- a) Primary and Secondary Immune response
- b) Endotoxin and Exotoxin
- c) Active and Passive immunity
- d) Innate and Adaptive immunity

3. Write the causative agent and mode of transmission of the following diseases (**any 6**):

2 x 6 = 12

- a) Polio
- b) Measles
- c) Anthrax
- d) Athlete's foot
- e) AIDS
- f) Dengue
- g) Amoebiasis

P.T.O.

4. Write short notes on the following (**any 3**): 4 x 3 = 12
- a) Inflammation
 - b) Structure and function of Thymus
 - c) Types of vaccines
 - d) COVID-19
5. a) Match the following pairs: 5
- | | |
|--|-----------------|
| A. Lockjaw and muscle stiffness | 1. Tuberculosis |
| B. Itchy fluid filled blisters | 2. Mumps |
| C. Swelling of Salivary glands | 3. Chicken Pox |
| D. High fever with chills at intervals | 4. Tetanus |
| E. Persistent cough with bloody sputum | 5. Malaria |
- b) How do acute diseases differ from chronic diseases? 3
- c) Discuss the importance of molecular size, foreignness, and heterogeneity in determining immunogenicity. 4
6. a) Expand the following : MALT, CTL, APC, MHC 4
- b) Write the function of the following: 2 x 4 = 8
- i. Plasma cells
 - ii. Neutrophils
 - iii. NK cells
 - iv. Basophils