

**G-4/434/21**

Roll No. ....

**M.Sc. IV Semester Examination, 2021****MICROBIOLOGY****Paper II****(Medical Microbiology)**

Time : 3 Hours ]

[ Max. Marks : 80

**Note :** All questions are compulsory. Question Paper comprises of 3 sections. Section A is objective type/multiple choice questions with no internal choice. Section B is short answer type with internal choice. Section C is long answer type with internal choice.

**SECTION A****1×8=8****(Objective Type Questions)**

Choose the correct answer :

1. The microorganism stick to which part of the following region of respiratory tract :  
 (a) Nasal baffle              (b) Nasopharynx  
 (c) Mucus                      (d) Oropharynx
2. Lactobacillus a resident flora of human is found in :  
 (a) Colon                      (b) Mouth  
 (c) Genital tract of female  
 (d) All of above.

P.T.O.

3. cAMP reaction test is used to diagnose :  
 (a) Streptococcus agalactiae  
 (b) Streptococcus pyogenes  
 (c) Staphylococcus aureus  
 (d) All of above.
4. Which of the following is a silent infection :  
 (a) Acute                      (b) Persistent  
 (c) Tumorigenic              (d) Subclinical.
5. The vaccine used to eradicate smallpox is originated as :  
 (a) Live smallpox  
 (b) Live cowpox  
 (c) A genetic recombinant  
 (d) Killed whole virus.
6. Interferons are very special defence mechanisms which operate by :  
 (a) Inhibiting virus induced enzymes  
 (b) Producing long-lasting state of resistance  
 (c) Binding to neighbouring cells  
 (d) Binding to virus (e) All of above.

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7. Which of the following is most likely to be found within reticuloendothelial cells :
- Histoplasma capsulatum
  - Cryptococcus neoformans
  - Candida albicans
  - All of above.
8. The other name of coccidiomycosis is :
- Yellow fever
  - San Jaoquin velley fever
  - Rocky mountain spotty fever
  - Relapsing fever.

**SECTION B****4 × 6 = 24****(Short Answer Type Questions)**

**Note :** Attempt all questions from each unit with internal choice.

**Unit-I**

1. Write a note on host microbe interactions.

*Or*

Describe the various mode of spread of infection.

**Unit-II**

2. Write note on any one of the following :

- Corynebacterium,
- Rickettsiae.

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P.T.O.

**Unit-III**

3. Write note on any one of the following :

- Herpes Virus,
- Rhabdo Virus.

**Unit-IV**

4. Write short note on any one of the following :

- Plasmodium,
- Mycotoxin.

**SECTION C****12 × 4 = 48****(Long Answer Type Questions)**

**Note :** Attempt all questions.

**Unit-I**

1. Write an essay on normal flora of human body and its significance.

*Or*

Describe the routes of transmission of microbes in the body.

**Unit-II**

2. Discuss various mechanisms by which E. coli produces diarrhoea. Describe the laboratory diagnosis of bacterial diarrhoea.

*Or*

Write short notes on the following :

- Pathogenesis and laboratory diagnosis of plague,

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- (b) Classify staphylococci, discuss pathogenesis of staphylococcus aureus.

**Unit-III**

3. Write an essay on Retrovirus.

*Or*

Write short notes on the following :

- (a) Hepatitis virus,  
(b) Morphology and pathogenesis of influenza virus infection.

**Unit-IV**

4. Discuss the various types of mycotic infections caused by Dermatophytes.

*Or*

Explain the laboratory techniques in parasitology.

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