

Seat No.	41673
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B.Sc. (Part - III) (Semester - VI)

Examination, March 2024

MICROBIOLOGY (Paper- XVI)

DSE F52 Medical Microbiology

Sub. Code : 81707

Day and Date : Saturday, 30/03/2024

Total Marks : 40

Time : 2.30 p.m. to 4.30 p.m.

Instructions : 1) All questions are compulsory.

2) Figures to the right indicate full marks.

Q1) Rewrite the following sentences by selecting correct answer from given alternatives. [8]

- a)from erythrocytes enter in mosquito while feeding on blood of infected person.
- i) Gametocytes ii) Sporozoites
- iii) Merozoites iv) Ookinete
- b) Reiter and Nichols strain are used in diagnosis of..... disease by Wasserman's test.
- i) Leptospirosis ii) Pneumonia
- iii) Tuberculosis iv) Syphilis
- c)is a tissue degrading enzyme produced by Pseudomonas pathogen.
- i) Staphylokinase ii) Coagulase
- iii) Kinase iv) Collagenase
- d) Cholera toxin produced by Vibrio cholera converts ATP to.....
- i) cAMP ii) cADP
- iii) cATP iv) cGMP

- e) antibiotic blocks DNA replication process
- | | |
|-----------------|------------------|
| i) Penicillin | ii) Quinolones |
| iii) Bacitracin | iv) Piperacillin |
- f) Ketoconazole blocks synthesis of in cell membrane.
- | | |
|-----------------|-----------------|
| i) Squaline | ii) Acetyl Co-A |
| iii) Lanosterol | iv) Ergosterol |
- g) is a narrow spectrum antibiotic.
- | | |
|-------------------|-------------------|
| i) Penicillin | ii) Ciprofloxacin |
| iii) Streptomycin | iv) Tetracycline |
- h) is a antiprotozoal drug
- | | |
|-------------------|-----------------|
| i) Metronidazole | ii) Nystatin |
| iii) Griseofulvin | iv) Cycloserine |

Q2) Answer any two of the following.

[16]

- Describe in brief Causative agent, Mode of transmission, Pathogenesis, Prevention and control of disease caused by Mycobacterium tuberculosis.
- What is chemotherapy? Discuss in brief mode of action of Ketoconazole and Quinolones and AZT
- Describe in brief Causative agent, Mode of transmission, Pathogenesis, Prevention and control of disease caused by Treponema pallidum

Q3) Answer any four of the following.

[16]

- Mode of action of penicillin
- Mode of action of Metronidazole
- Bufficoat test
- Conjugate vaccines
- Toxins produced by Staphylococcus aureus
- Define chemoprophylaxis with any two examples