QP Code: **Reg. No…….**

SECOND YEAR B. SC MEDICAL MICROBIOLOGY

GENERAL MICROBIOLOGY

(MODEL QUESTION PAPER)

TIME: 3 HOURS **TOTAL MARKS: 100**

*Answer all the questions
*Draw diagrams wherever necessary

Essay **(2 X15= 30)**

1. Explain protein synthesis and gene transfer mechanisms in case of bacteria
2. Define antibiotics; classify antibiotics and its properties, and cell wall synthesis inhibitors.

Short Essay **(2X10= 20)**

3. Cell morphology of both gram positive and gram negative bacteria
4. Define sterilization, classify, and chemical disinfectants

Short Notes **(6 X5= 30)**

5. Bacterial growth curve
6. IMVIC Reactions
7. AFB staining
8. Culture methods
9. Mutations
10. Endospore

Answer Briefly **(10X2= 20)**

11. Flagella
12. L forms
13. Krebs cycle
14. Filters
15. Rideal- Walker test
16. Catalase test
17. Hfr strains
18. Enriched media
19. Stokeôs method
20. Capsule staining

QP Code: **Reg. No…….**

SECOND YEAR B. SC MEDICAL MICROBIOLOGY

METHODOLOGY AND INSTRUMENTATION

(MODEL QUESTION PAPER)

TIME: 3 HOURS **TOTAL MARKS: 100**

*Answer all the questions
*Draw diagrams wherever necessary

Essay **(2×15=30)**

1. Describe the principle, instrumentation and applications of electron microscopy.
2. Explain the principle, classification and techniques of elisa.

Short Essay **(2×10=20)**

3. Design and working of p^H meter
4. Explain the general principle of chromatography, and discuss about GLC.

Short Notes **(6×5=30)**

5. Automation in microbiology laboratory
6. Care and management of mouse
7. Affinity chromatography
8. Ultracentrifugation
9. HPLC
10. RIA

Answer Briefly **(10×2=20)**

11. Flurescent microscopy
12. 2D chromatography
13. Cold room
14. Iso electric foccusing
15. Isopycnic centrifugation
16. Factors affecting electrophoretic mobility
17. Resolving power
18. General bleeeding technique in laboratory animals
19. Polarising microscopy
20. Different types of filters used in microbiology laboratory.

QP Code: **Reg. No…….**

SECOND YEAR B. SC MEDICAL MICROBIOLOGY

PARASITOLOGY AND ENTOMOLOGY

(MODEL QUESTION PAPER)

TIME: 3 HOURS **TOTAL MARKS: 100**

*Answer all the questions
*Draw diagrams wherever necessary

Essay **(2×15=30)**

1. Discuss the life cycle and pathogenesis of plasmodium species.
2. Explain morphology, life cycle, disease transmission and control of mosquitoes.

Short Essay **(2×10=20)**

3. Collection and preservation of specimens for parasitological examination.
4. Morphology, life cycle and public health importancce of musca domestica.

Short Notes **(6×5=20)**

5. Insecticides
6. Echinococcosis
7. Life cycle of strongyloides stercoralis
8. Morphological forms of balantidium coli
9. Intestinal amoebiasis
10. Sand fly

Answer Briefly **(10×2=20)**

11. Toxoplasmosis
12. Public health importance of flea
13. Loa loa
14. NIH swab
15. Laboratory diagnosis of dracunculus medinensis
16. Cyclops
17. Occult filariasis
18. Glossina
19. Larva migrans
20. Egg of Ascaris lumbricodes