

KALOJI NARAYANA RAO UNIVERSITY OF HEALTH SCIENCES

WARANGAL, TELANGANA STATE – 506 002

MBBS SECOND YEAR DEGREE EXAMINATIONS: AUGUST, 2025

MICROBIOLOGY

PAPER –I

Time: 3 Hours

Max Marks: 100

Note: Answer all questions

Give Diagrammatic representation wherever necessary

Multiple Choice Questions:

10 X 1 = 10

1. Endoscopes are sterilized using which of the following methods?
 - a) Glutaraldehyde
 - b) Formaldehyde
 - c) Autoclaving
 - d) Hot air oven
2. Which of the following is a primary lymphoid organ?
 - a) Spleen
 - b) Mucosa associated Lymphoid Tissue
 - c) Thymus
 - d) Tonsils
3. African sleeping sickness is caused by
 - a) Leishmania donovani
 - b) Trypanosoma brucei
 - c) Trypanosoma cruzi
 - d) Trypanosoma rangeli
4. Which is more antigenic in inducing immune response
 - a) Nucleic acid
 - b) Carbohydrate
 - c) Protein
 - d) Lipid
5. Which of the following hepatitis viruses is not transmitted parenterally?
 - a) Hepatitis B virus
 - b) Hepatitis D virus
 - c) Hepatitis C virus
 - d) Hepatitis E virus
6. The most common mode of transmission of Brucella is
 - a) Direct contact
 - b) Air borne
 - c) Man to man
 - d) Ingestion of raw milk
7. Which one of the following methods of antimicrobial susceptibility testing does not detect MIC (minimum inhibitory concentration)?
 - a) Disk Diffusion test
 - b) Broth Dilution method
 - c) Agar Dilution method
 - d) Epsilometer test
8. Rate of infection occurring at a higher rate than usual in a particular geographical area is known as
 - a) Epidemic
 - b) Pandemic
 - c) Hyper endemic
 - d) Sporadic
9. Prozone phenomenon in Ag Ab reaction is due to
 - a) Excess antibodies
 - b) Excess antigen
 - c) Hyperimmune serum
 - d) Complement excess
10. Which of the following is not a potentially highly infectious specimen for occupational injury in health care settings
 - a) Blood
 - b) CSF
 - c) Saliva
 - d) Semen

Essay/ Long Answer Questions:**2 X 15 = 30**

11. Enumerate the properties and types of Antigen- Antibody Reaction. Describe in detail about the principle, types and applications of ELISA. (6+2+4+3)
12. Discuss in detail the laboratory diagnosis of Viral Infections. (15)

Short Answer Questions:**7 X 6 = 42**

13. Amoebic Liver Abscess.
14. Mechanism of Antibiotic Resistance.
15. Stool concentration techniques.
16. Graft versus Host Reaction.
17. Post exposure Prophylaxis for HIV.
18. Q Fever.
19. Kyasanur Forest Disease.

Very Short Answer Questions:**6 X 3 = 18**

20. Adjuvants.
21. Dimorphic Fungi.
22. Germ Tube.
23. Name three Tumour associated Antigens.
24. Classification of Arbo Viruses.
25. Name three diseases caused by Superantigens.
