

PAPER CODE: MB2019115

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MBBS SECOND YEAR DEGREE EXAMINATIONS: AUGUST 2025

MICROBIOLOGY PAPER-I

Time: 3 Hours

Max Marks: 100

Note: Answer all questions Give Diagrammatic representation where ever 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 rangei
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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.

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