

KALOJI NARAYANA RAO UNIVERSITY OF HEALTH SCIENCES
WARANGAL, TELANGANA STATE – 506 002
MBBS SECOND YEAR DEGREE EXAMINATIONS: JANUARY, 2025
MICROBIOLOGY
PAPER – I
Time: 3 Hours Max Marks: 100
Note: Answer all questions
Give Diagrammatic representation wherever necessary

Multiple Choice Questions: 10 × 1 = 10

- 1) Which among the following is the best method to demonstrate bacterial capsule?
 - a) Gram staining
 - b) Acid fast staining
 - c) Negative staining
 - d) Albert's staining
- 2) Often patients are immune to diseases like chicken pox once infected. This immunity is an example of
 - a) Naturally acquired active immunity
 - b) Artificially acquired active immunity
 - c) Naturally acquired passive immunity
 - d) Artificially acquired passive immunity
- 3) Babesiosis is transmitted by bite of
 - a) Anopheles mosquito
 - b) Sandfly
 - c) Tick
 - d) Mite
- 4) Each of the following statements concerning kala-azar is correct except
 - a) Kala-azar is caused by *Leishmania donovani*
 - b) Kala-azar is transmitted by the bite of sandflies
 - c) Kala-azar occurs primarily in rural Latin America
 - d) Kala-azar can be diagnosed by finding amastigotes in bone marrow
- 5) Which of the following is transmitted by inhalation?
 - a) Cholera
 - b) Tuberculosis
 - c) Typhoid
 - d) Food poisoning
- 6) Which of the following viruses is a DNA virus?
 - a) Hepatitis A virus
 - b) Hepatitis B virus
 - c) Hepatitis C virus
 - d) Hepatitis D virus

- 7) Southern blot is used to detect:
- DNA
 - RNA
 - Proteins
 - Lipid
- 8) Malaria recrudescence is due to:
- Resistant to treatment
 - Relapse of infection
 - Relapse in vivax & ovale
 - Reappearance of sexual stage parasitemia after treatment
- 9) Which of the following is not a WHO standard guideline for Hand Hygiene
- Before touching a patient
 - After touching patients surroundings
 - After touching a patient
 - When hands are visibly soiled
- 10) Widal test in Enteric fever is usually recommended in which week of fever
- First
 - Second
 - Third
 - Fourth

Essay / Long Answer Questions: $2 \times 15 = 30$

11. Define Sterilization. Classify physical methods of Sterilization. Discuss about Autoclave.
12. Discuss laboratory diagnosis of Hepatitis B Virus and add a note on its Prophylaxis.

Short Answer Questions: $7 \times 6 = 42$

13. Koch Postulates.
14. Precipitation Reaction.
15. Sepsis.
16. Type IV Hypersensitivity Reaction.
17. Laboratory diagnosis of Enteric Fever.
18. Amoebic Liver Abscess.
19. Neonatal HIV.

Very Short Answer Questions: $6 \times 3 = 18$

20. Mention two complications of Falciparum Malaria.
21. Name three clinical forms of PKDL.
22. Mention any three biological roles of Complement.
23. Name three parasites which produce Autoinfection.
24. Name three methods of Antibiotic susceptibility testing of MIC.
25. Mention three properties of IgG Antibody.

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