

PAPER CODE: MB2019115**KALOJI NARAYANA RAO UNIVERSITY OF HEALTH SCIENCES****WARANGAL, TELANGANA STATE - 506002****MBBS SECOND YEAR DEGREE EXAMINATION FEBRUARY, 2024****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. In humans, Major Histocompatibility Complex (MHC) is called
 - a) Human Major Histocompatibility Complex (MHC)
 - b) Homo Major Histocompatibility Complex (MHC)
 - c) Human Leucocyte Antigen (HLA)
 - d) All the above
 2. All the following act on inhibition of protein synthesis except:
 - a) Penicillin
 - b) Chloramphenicol
 - c) Erythromycin
 - d) Streptogramin
 3. All the following are current effective preventive methods of HIV infection except
 - a) Safe and protected sex
 - b) Use of sterile needles for injection
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c) Safe blood transfusion method

d) Use of available vaccines

4. Widal test is widely used serological test for diagnosis of Enteric fever in:

a) 1st week of fever

b) Carriers

c) 2nd week of fever

d) After 4th week

5. Highly sensitive CRP (hs-CRP) test is useful in assessing which of the following condition?

a) Common cold

b) Pregnancy

c) Cardiovascular diseases

d) Anaemia

6. Selective media for *Vibrio cholera* is:

a) Modified Thayer Martin medium

b) Thiosulphate citrate bile salt sucrose agar (TCBS)

c) Robertson's cooked meat medium

d) Wilson & Blair bismuth sulphite medium

7. In concentration of stool, all the eggs float except:

a) Fertilized egg of *Ascaris lumbricoides*

b) Hookworm

c) Whipworm

d) Unfertilized egg of *Ascaris lumbricoides*

8. Superantigen causes:

- a) Polyclonal activation of B cells
- b) Enhancement of phagocytosis
- c) Antigen presentation by macrophage
- d) Activation of complement

9. Reagin antibody which mediates Type I Hypersensitivity is

- a) IgA
- b) IgG
- c) IgM
- d) IgE

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:

2X15=30

- 11. List the viruses causing Hepatitis. Describe the pathogenesis and laboratory diagnosis of Hepatitis B. Add a note on preventive measures against Hepatitis B. (3+3+6+3)
- 12. Define and classify Hypersensitivity reactions. Describe anaphylaxis in detail. (5+10)

Short Answer Questions:

7 X 6 = 42

- 13. Pathogenesis and laboratory diagnosis of enteric Coccidian Parasites.
- 14. Classify and describe chemical disinfectants used in Hospitals.

15. Laboratory diagnosis of Viral Infections.
16. Describe the pathogenesis and laboratory diagnosis of Kala azar.
17. Classify Immunoglobulins. Describe the structure and functions of IgM.
18. Classify methods of Antimicrobial Susceptibility Testing. Explain Antimicrobial Susceptibility Testing by Disk diffusion method.
19. Pathogenesis and laboratory diagnosis of Cholera.

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

20. Bacillus cereus.
21. Uses of fluorescence microscope.
22. Modes of transmission of HIV Infection.
23. Applications of Genetic Engineering.
24. Weil Felix Test.
25. What are Superantigens? Name three diseases caused by Superantigens.
