

PAPER CODE: MB2019116

KAIJI NARAYANA RAO UNIVERSITY OF HEALTH SCIENCES

WARANGAL, TELANGANA STATE – 506 002

MBBS SECOND YEAR DEGREE EXAMINATIONS: AUGUST 2025

MICROBIOLOGY PAPER-II

Time: 3 Hours

Max Marks: 100

Note: Answer all questions Give Diagrammatic representation where ever necessary

Multiple Choice Questions: 10 X 1 = 10

1. Which of the following is not considered a potential agent of bioterrorism and biologic warfare?
 - a) Yersinia pestis
 - b) Botulinum toxin
 - c) Streptococcus pyogenes
 - d) Bacillus anthracis
 2. In a patient with bubonic form of plague, all the following specimens are acceptable for diagnosis except
 - a) Stool culture
 - b) Blood culture
 - c) Culture of lymph node aspirate
 - d) Acute and convalescent serum
 3. Staphylococcus epidermidis may cause:
 - a) Toxic shock syndrome
 - b) Stitch abscess
 - c) Staphylococcal scalded skin syndrome
-

d) All of the above

4. Soft chancre is caused by

a) Treponema pallidum

b) Neisseria gonorrhoeae

c) Haemophilus ducreyi

d) Chlamydia trachomatis

5. Tissue should be segregated in which colour bag?

a) Yellow

b) Blue

c) Red

d) Black

6. Subacute sclerosing panencephalitis is a complication of

a) Mumps

b) Measles

c) Rubella

d) Rabies

7. Which of the following is not used as an indicator organism of faecal contamination of water

a) Escherichia coli

b) Salmonella typhi

c) Faecal Streptococci

d) Pseudomonas

8. Intracellular survival of Mycobacterium tubercle bacilli inside the macrophage is due to

a) Inhibition of entry into host cell

b) Inhibition of entry into phagosome

- c) Inhibition of phagosome and lysosome fusion
- d) Inhibition of degradation by lysosomal enzymes

9. Cutaneous leishmaniasis is also called as

- a) Delhi boil
- b) Aleppo boil
- c) Baghdad button
- d) All of the above

10. Gene targets for confirmation of COVID 19 includes

- a) Spike Protein
- b) Envelope protein
- c) Membrane protein
- d) RNA dependent RNA polymerase

Essay/ Long Answer Questions: 2 X 15 = 30

11. A 55-year-old male came to OPD with complaints of fever, vomiting, severe headache and photophobia since 2 days. On examination he had a temperature of 39° C pulse rate of 96 bpm. He has recently had ear infection. Neck stiffness was noted. Relevant sample was sent for confirmation of the diagnosis.

- a. Elaborate on the sample collection.
 - b. Gram stain report of the sample revealed lens shaped Gram-positive Diplococci with a halo around and plenty of the Polymorphonuclear cells. Identify the probable pathogen.
 - c. Elaborate on laboratory tests done to confirm the pathogen.
 - d. Add a note on Prophylaxis and treatment available for this pathogen.
- (3+2+5+5)

12. A farmer presented to the OPD with history of Papulo Vesicular Lesion over the neck. Which later on developed into a coal black, necrotic wound for the past 3 days, tissue from the necrotic area on Gram staining revealed Gram positive bacilli arranged in chains.

- a. What is the clinical diagnosis and causative agent?
- b. Describe the pathogenesis and various forms of clinical presentation of this infection
- c. Describe the laboratory investigations to confirm the diagnosis. (2+6+7)

Short Answer Questions: 7 X 6 = 42

13. Guinea worm infection.
14. Gonorrhoea- pathogenesis and Lab diagnosis
15. Laboratory diagnosis of Diphtheria.
16. Mumps.
17. Extra intestinal amoebiasis.
18. Mucormycosis.
19. Lab diagnosis of Extra Pulmonary Tuberculosis.

Very Short Answer Questions: 6 X 3 = 18

20. Name three Zoonotic Diseases.
21. What is the color coding for Biomedical Waste according to BMW management rules 2016.
22. Congenital Syphilis.
23. DPT Vaccine.
24. Name three Microfilaria of medical importance.
25. Name three agents causing Ocular Mycoses.