

**KALOJI NARAYANA RAO UNIVERSITY OF  
HEALTH SCIENCES  
WARANGAL, TELANGANA-506 002  
MBBS SECOND YEAR DEGREE  
EXAMINATIONS: JUNE, 2025  
MICROBIOLOGY  
Paper -I  
(NEW SCHEME)**

Time: 3 Hours

Max Marks: 100

Note: Answer all questions

Give Diagrammatic representation wherever necessary

**Multiple Choice Questions: 10 X 1=10**

- 1) Robertson's cooked meat medium is an example of:
  - a) Enriched medium
  - b) Enrichment medium
  - c) Anaerobic medium
  - d) Selective medium
- 2) Mechanism of direct transfer of free DNA is:
  - a) Transformation
  - b) Transposition
  - c) Conjugation
  - d) Transduction
- 3) Filariasis in India is transmitted by
  - a) Musca domestica

- b) *Anopheles gambiae*
  - c) *Culex quinquefasciatus*
  - d) *Aedes aegypti*
- 4) BCG vaccine is an example of:
- a) Natural active immunity
  - b) Natural passive immunity
  - c) Artificial passive immunity
  - d) Artificial active immunity
- 5) Which of the following samples is not useful in diagnosis of Enteric fever?
- a) Blood
  - b) Stool
  - c) Urine
  - d) Sputum
- 6) Which of the following parasite causes megaloblastic anaemia?
- a) *Ancylostoma duodenale*
  - b) *Plasmodium falciparum*
  - c) *Diphyllobothrium latum*
  - d) All of the above
- 7) Which one of the following is an enriched medium?
- a) Selenite F Broth
  - b) Peptone water
  - c) MacConkey agar
  - d) Blood agar
- 8) Organisms producing extended spectrum B-lactamases (ESBL) are: \_\_\_\_\_

- a) Resistant to all penicillins- 1st, 2nd & 3rd generation cephalosporins and monobactams
- b) Resistant to penicillins
- c) Resistant to cephalosporins of 1st, 2nd & 3rd generation
- d) Resistant to cephalosporins of 4th generation
- 9) Which of the following can be converted to toxoid by formaldehyde
- a) Exotoxin
- b) Endotoxin
- c) Endospore
- d) All of the above
- 10) All waste sharps should be discarded in:
- a) Cardboard boxes with blue coloured markings
- c) Red coloured non-chlorinated container
- b) Puncture proof and leak proof white containers
- d) Yellow coloured container

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

11) Define and classify Hypersensitivity Reactions. Write in detail about type IV Hypersensitivity Reactions.

(4+4+7)

12) A 7 year old female child presented to cardiology OPD with swollen red tender joints which migrated from one joint to another over a period of hours. The child was having abnormal gait. She also complained of painless small mobile lumps beneath the skin overlying bony prominences. ~~On auscultation murmur was heard over the~~

Mitral valve area. ECG showed prolongation of P-R interval. Child gives a history of sore throat 3 weeks back.

- a. What is the probable clinical diagnosis and its aetiological agent?
- b. Describe the diagnosis criteria used for this condition.
- c. How will you prevent recurrence of such episodes?  
(3+7+5)

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

- 13) Anaerobic culture methods.
- 14) Bacterial Flagella.
- 15) Polymerase chain reaction.
- 16) Transduction.
- 17) Methods of detecting Viral Growth in Cells.
- 18) Stool concentration techniques.
- 19) Laboratory diagnosis of Fungal Infection.

### **Very Short Answer Questions: 6X3=18**

- 20) Negri body
- 21) Four differences between Classical and El tor Vibrios.
- 22) Sheathed Microfilaria.
- 23) Visceral Larva Migrants.
- 24) Give three examples of Heterophile Agglutination reactions.

25) What is the principle of a Fluorescence Microscope.

\*\*\*\*\*

www.FirstRanker.com