

**Director of Health, Medical Services And Medical Education  
Gujarat State  
Laboratory and X-ray technicians Training Course Examination  
2012**

TOTAL MARKS: 50

**MICROBIOLOGY**

1. Answer any **Three**:

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- a. Antibiotic sensitivity testing
- (b) Moist heat sterilization
- c. Name organisms causing malaria. Write pathogenicity and lab diagnosis of malaria
- d. What is serology? Classify serological tests. Write in detail about agglutination with examples.

2. Write short notes on any **FOUR**:

20

- a. IgM
- b. Standard tests for syphilis
- c. Hepatitis B
- (d) Robert Koch
- e. Type III Hypersensitivity

3. Answer any **THREE**:

06

- a. Lab diagnosis of pulmonary tuberculosis
- b. Laboratory diagnosis of roundworm
- c. Which microscopy and culture techniques are used in the diagnosis of fungal infections?
- d. Write difference between active and passive immunity.

4. Answer in 1-2 sentences. Any **SIX**:

- a. What is TORCH test?
- b. Name two selective media
- c. What is toxoid?
- d. Write two zoonotic bacterial diseases
- e. Name two bacteria causing dysentery.
- f. What is Cryptococcus? What does it cause?
- g. Name two disinfectants.
- h. Enumerate two tests useful for the diagnosis of HIV.

long term of resistance 06 short term of resistance based of short lifespan  
that is resistance induced  
cuter the contact with foreign antigens.  
→ It is resistance based on antibodies performed in another host.  
eg. diphtheria tetanus

The power of the body to resist infection & injurious effects of toxins is known as immunity.

→ Sigella, Bacillus dysenteriae → ELISA, RAO

TORCH → TO - Toxoplasma gondii  
R - Rubella  
C - Cytomegalovirus  
H - Hepatitis virus

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3

4

3

6