

**DIRECTOR OF HEALTH, MEDICAL SERVICES AND MEDICAL
EDUCATION
GUJARAT STATE
LABORATORY AND X-RAY TECHNICIANS TRAINING COURSE
EXAMINATION- 2017**

MICROBIOLOGY

DATE: 12-08-2017

TOTAL MARKS: 50

TIME: 10:00 A.M. to 12:00 PM

1. Answer any **Three**: 18
- a. Define hypersensitivity. Write in detail about Type I hypersensitivity.
 - b. Define sterilization and disinfection. Classify different methods. Write the principle of autoclave and hot air oven.
 - c. Write laboratory diagnosis of malaria.
 - d. Collection & transport of specimen for microbiological investigation.
2. Short notes on any **FOUR**: 20
- a. Laboratory diagnosis of cholera.
 - b. Antibodies
 - c. Biomedical waste management
 - d. Polio virus
 - e. Laboratory diagnosis of tuberculosis
3. Answer any **THREE**: 06
- a. What is biosafety cabinet?
 - b. Enriched media
 - c. Live bacterial vaccines
 - d. Name tests useful for laboratory diagnosis of T.pallidum
4. Answer in 1-2 sentences. Any **SIX**: 06
- a. Name two intestinal nematodes. *round worm, Hook worm*
 - b. Write the modes of transmission of Hepatitis B virus. *Perantial, Perintal, Sexual*
 - c. What is the use of KOH in mycology?
 - d. Name two viral vaccines. *Rabies, Influenza, Hepatitis A & B*
 - e. Name two species of Candida. *C. Albicans, C. Oleophila*
 - f. Draw a labeled diagram of bacterial cell
 - g. What is iatrogenic infection?
 - h. Name method of sterilization in which spores are killed.

Iatrogenic infection are those infection transmitted during medical treatment ← case