

DIRECTOR OF HEALTH, MEDICAL SERVICES AND MEDICAL EDUCATION

GUJARAT STATE

LABORATORY AND X-RAY TECHNICIANS TRAINING COURSE EXAMINATION-2013

MICROBIOLOGY

DATE: 17-08-2013

TOTAL MARKS: 50

TIME:-02 HOURS

1. Answer any THREE 18

- a. Classification of culture media. Discuss about enriched media and selective media. 23
- b. Define sterilisation. Discuss in details about chemical disinfectants. 17, 20
- c. Enumerate arboviruses prevalent in India. Write Pathogenicity and laboratory diagnosis of dengue virus. 17
- d. Classification of hypersensitivity reactions. Discuss type I hypersensitivity. 60

2. Write short notes on any FOUR 20

- a. ELISA test.
- b. Hepatitis A. 174
- c. Laboratory diagnosis of enteric fever 107
- d. Laboratory diagnosis of HIV infection. 189
- e. Hospital waste management. 243

3. Answer any THREE 06

- a. Laboratory Diagnosis of malaria. 216
- b. Louis Pasteur. 3
- c. Laboratory diagnosis of hook worm. 219
- d. Oral polio vaccine.

4. Answer in 1-2 sentences. Any SIX

- a. Name any two bacterial vaccines. cholera, Typhoid, T21A06
- b. Name media used for isolation of fungus and its method of sterilisation. SDA
- c. What is negative staining and its uses.
- d. Name any two bacteria causing food poisoning. salmonella, C. perfringens
- e. Name any two bacterial sexually transmitted diseases. syphilis, AIDS
- f. Name any two diseases transmitted by mosquito. Dengue, Malaria
- g. Name transport and selective media used for Vibrio cholerae. TCBS, BSA, VR, any stain
- h. Write any four differences between endotoxin and exotoxin.

Exo (Exotoxin) Transport media - Cary - Blair medium  
 Source - GM - GM Selective media - TCBS - Thio sulphate agar etc  
 Location - release from cell part of cell - bile sucrose (TCBS)

203

ALD  
EMA