

**Directorate of Health
Medical Services & Medical Education
Gujarat State**

27th Laboratory & X-ray Technicians training course examination-2015.

Time:2 hours

Total Marks :50

Q.1. Write short notes(any three)

Marks:15

- a) Quality Control in Clinical Biochemistry Laboratory.
- b) Metabolic & Respiratory Acidosis.
- c) Standard liver function tests.
- d) What are enzymes? Describe mechanism of enzyme action?

Q.2. Describe Automation in Clinical Biochemistry Laboratory.

Marks:10

Q.3. Answer in short(any four)

Marks:10

- a) Purity & Grading of Water used in Clinical Biochemistry Laboratory.
- b) First Aid measures in laboratory.
- c) Types of centrifugation & related safety measures should be taken by a technician during centrifugation.
- d) Sample rejection criteria in Clinical Biochemistry laboratory.
- e) Mini GTT.

Q.4. Explain in few lines(any five)

Marks:10

- a) Point of care testing
- b) Panic value reporting.
- c) Blood gas parameters.
- d) Causes of Sample hemolysis.
- e) Safety & Prophylaxis in needle prick injury.
- f) Fire extinguishers in Laboratory.

Q.5. Answer True or False with justification(any five)

Marks:05

- a) Unconjugated bilirubin can be excreted in urine.
- b) Potassium estimation is an emergency parameter in Laboratory.
- c) "Sample Blank" is used in serum bilirubin estimation.
- d) "Kinetic method " is used in serum sodium estimation.
- e) Fluoride bulb is used in Blood glucose estimation.
- f) Serum Alkaline phosphatase level is decreased in obstructive jaundice.