

Directorate of Health Medical Services and Medical Education  
Gujarat State  
25<sup>th</sup> Laboratory and X-ray technicians training course Examination-2013  
Paper: Biochemistry

Time : 2 1/2 hours

Total Marks: 50

Q.1 Write short notes ( Any three)

Marks : 5x3=15

- a) Automation in clinical Biochemistry Laboratory.
- b) Electrophoresis.
- c) Sequence of sample drawing in vacutainer, Steps of sample collection, & sample transportation.
- d) Laboratory safety.

Q.2. Describe enzyme inhibitions with examples.

Marks: 1x10=10

Q.3 Explain in short ( Any Four)

Marks: 10

- a) Paper chromatography.
- b) Principle of colorimetry.
- c) Metabolic Acidosis.
- d) L.J Chart.
- e) Sample rejection criteria.

Q.4. Write meaning of the following terms & explain in few lines. (Any five)

Marks: 10

- a) Phlebotomy
- b) Hemoglobinuria
- c) Glomerular filtration rate
- d) Lyophilized sample
- e) Coefficient variation
- f) Standard Deviation.

Q.5. Answer in few lines ( Any five)

Marks: 5

- a) Unconjugated bilirubin can not appear in the urine.
- b) HDL cholesterol is good for health.
- c) Sucrose is a non reducing sugar.
- d) Albumin gives full saturation test positive.
- e) Glycated hemoglobin is estimated in diabetic patients.
- f) Inulin is used for GFR estimation.