

2056
B. Voc. (Medical Laboratory Technology) FYUP
Second Semester
MLT-203: Analytical Laboratory Testing Process -I

Time allowed: 3 Hours

Max. Marks: 40

NOTE: Attempt five questions in all, including Question No. I which is compulsory and selecting one question from each Unit.

x-x-x

I. Write short note on:-

- a) Write the three key thyroid blood tests.
- b) What does electrolyte imbalance lead to?
- c) How is MCHC and MCH calculated?
- d) Significance of high ketone bodies in urine

(4x2)

UNIT - I

II. a) Explain Alkaline picrate method for determination of serum creatinine.

b) Describe glucose oxidase method for blood sugar level.

(2x4)

III. Write down the precautions that must be taken while the collection, storage and transportation of blood samples.

(8)

UNIT - II

IV. a) Explain any two methods for the estimation of sodium and phosphorus.

b) Describe in brief about the laboratory investigation of megaloblastic anaemia. (2x4)

V. Discuss various methods for the determination of serum bilirubin in detail.

(8)

UNIT - III

VI. What is ESR? Explain various methods adopted for its determination and also write factors influencing ESR.

(8)

VII. a) What is haematocrit value? Write its clinical significance.

b) Write a note on Absolute Eosinophil count determination.

(2x4)

UNIT - IV

VIII. Describe the physical and chemical examination of urine sample.

(8)

IX. a) What instructions must be followed for the collection of urine sample?

b) Write a brief note on key components of biochemical profile of urine.

(2x4)

x-x-x

