

Time allowed: 3 Hours

NOTE: Attempt five questions in all, including Question No. 1 which is compulsory and selecting one question from each Unit.

x-x-x

I. Answer the following:-

- a) Define the biological specimen?
- b) What is the difference between plasma and serum?
- c) What are the minerals testing in blood?
- d) Define the PCV?
- e) What do you mean by sample handling?
- f) What is the ESR?
- g) Define anemia in human.
- h) What is the uric acid?

(8x1)

UNIT - I

- II. a) Write about the method of blood collection and transportation.
b) Write only names of routine electrolytes tests.

(2x4)

- III. a) Write about the glucose oxidase method of glucose estimation.
b) Describe in brief about the cholesterol estimation in serum.

(2x4)

UNIT - II

- IV. a) Briefly describe the method of Mallay for serum bilirubin estimation.

b) What are the various characteristics of TSH?

(2x4)

- V. a) Write about the various functions of platelet in human body. How will tests the platelet functions.

b) How will you detect the iron deficiency using laboratory test in human blood?

(2x4)

(2)

UNIT - III

- VI. a) What do you mean by erythrocyte sedimentation? Write its applications.
b) Write the lab method to conduct TLC test. (2x4)

- VII. a) Write about the hematocrit and its application.
b) Briefly describe about the PCV. (2x4)

UNIT - IV

- VIII. a) Write the major characteristics of microscopic of urine sample in diabetic person.
b) Write about the quantitative examination of urine sample. (2x4)

- IX. a) Mentioned the outline of biochemical test for creatine.
b) Briefly describe about the ketone bodies. (2x4)

X-X-X