

[illegible]

Total No. of Questions : 09

Max. Marks : 60

1. **SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.**
2. **SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.**
3. **SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.**

SECTION-A

1) **Answer briefly :**

- a) Write down the significance of coagulation factors.
- b) What is molarity of calcium chloride used in coagulation studies?
- c) Name one Abnormal Haemoglobin.
- d) Name vitamin K dependent coagulation factors.
- e) Write other name for factor I.
- f) What is full form of PT?
- g) Give normal value of plasma fibrinogen.
- h) What is heamolysate?
- i) Blood vessels are internally lined by which cells?
- j) Mention coagulation factors which are exclusively in intrinsic pathway.

SECTION-B

- 2) Discuss extrinsic pathway of blood coagulation.
- 3) Write down the mechanism of sickle cell anemia.
- 4) Describe the method for performing activated partial thromboplastin time (APTT) and also give its normal value.
- 5) Discuss various normal haemoglobins present in our body.
- 6) Write a short note on Hess test.

SECTION-C

- 7) Discuss normal haemostatic mechanism and theory of blood coagulation.
- 8) Write down steps involved in preparation and standardization of tissue cephalin and kaolin.
- 9) What are abnormal haemoglobins? Discuss various methods for their identification and estimation.