

2203230202010001
EXAMINATION NOVEMBER 2024 (ATKT EXAM)
POST GRADUATE DIPLOMA IN MEDICAL LABORATORY
TECHNOLOGY (SECOND SEMESTER)
HEAMATOLOGY (THEORY) - LEVEL 1

[Time: As Per Schedule]

[Max. Marks: 70]

Instructions:

1. Fill up strictly the following details on your answer book

- a. Name of the Examination : **POST GRADUATE DIPLOMA IN MEDICAL LABORATORY TECHNOLOGY (SECOND SEMESTER)**
 - b. Name of the Subject : **HEAMATOLOGY (THEORY) - LEVEL 1**
 - c. Subject Code No : **2203230202010001**
2. Sketch neat and labelled diagram wherever necessary.
 3. Figures to the right indicate full marks of the question.
 4. All questions are compulsory.

Seat No:

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Student's Signature

Q.1 Answer in Short: (Any Seven)

14

1. Define anticoagulant with examples.
2. Define haemoglobin. Enlist types of normal Hb.
3. What is the normal range of RBC count?
4. What is bleeding time? Give its normal range.
5. Name the hormone and vitamins affecting erythropoiesis.
6. Name the reagents used in cyanmethemoglobin & specific gravity methods of Hb?
7. Enlist blood cell indices.
8. Name different types of WBCs with their normal range.

Q.2 Attempt any TWO of the following:

14

1. Explain stages of erythropoiesis in detail.
2. Write a note on EDTA.
3. Enlist blood collection methods. Explain venous blood collection in detail.

Q.3 Attempt any TWO short note of the following: 14

1. Structure of haemoglobin.
2. Explain pathophysiology & laboratory diagnosis of β -Thalassaemia.
3. Sickling slide test.

Q.4 Attempt any TWO of the following: 14

1. Write a note on abnormal morphology of RBCs.
2. Enlist methods of ESR determination. Explain any one method in detail.
3. Explain iron deficiency anaemia in detail.

Q.5 Attempt any TWO short notes of the following: 14

1. WBC count.
2. Prothrombin time
3. Haemophilia A
