

2203230202010001
EXAMINATION FEBRUARY-MARCH 2024
POSTGRADUATE DIPLOMA IN MEDICAL LABORATORY
TECHNOLOGY. (SECOND SEMESTER)
2001-HAEMATOLOGY (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 : **HAEMATOLOGY (THEORY)**
 - 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:

--	--	--	--	--	--

Student's Signature

Q.1 Answer in Short: (Any Seven)

14

1. Give composition of blood in the form of chart.
2. Name the preferable vein for blood collection and name the disinfectant used
3. Draw the structure of haemoglobin
4. Describe two abnormal morphology of RBC
5. What is the difference between pernicious anemia and anemia due to Vitamin B12 deficiency?
6. Give the full form and normal range of APTT
7. What is Von Willebrand disease?
8. Name the tests used for diagnosis of haemoglobinopathies

Q.2 Attempt any TWO of the following: 14

1. Enlist anticoagulants and give its use, advantages and disadvantages
2. What is erythropoiesis? Discuss in detail
3. Describe the function of blood

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

1. Describe colorimetric method of Haemoglobin estimation
2. Thalassemia and its diagnosis
3. Sickle Cell disease

Q.4 Attempt any TWO of the following: 14

1. Reticulocyte count-Definition; structure and estimation
2. Discuss haemolytic anemia in detail
3. What is G6PD? Discuss the role of enzyme, inheritance and diagnosis of its deficiency.

Q.5 Attempt any TWO of the following: 14

1. Describe different types of WBC and give its clinical significance
2. Procedure of Differential WBC count
3. Platelet count-Normal range, principle, clinical significance
