2003001105020002
EXAMINATION OCTOBER 2024
BACHELOR OF SCIENCE (BIOTECHNOLOGY) (FIFTH SEMESTER)
CLINICAL HEMATOLOGY-LEVEL-2

[**Time: As Per Schedule]** **[Max. Marks:50]**

Instructions:

1. **Fill up strictly the following details on your answer book**
   a. Name of the Examination : **BACHELOR OF SCIENCE (BIOTECHNOLOGY) (FIFTH SEMESTER)**
   b. Name of the Subject : **CLINICAL HEMATOLOGY LEVEL-2**
   c. Subject Code No : **2003001105020002**
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 Define/Answer in short Any Four: **08**

(a) Define anaemia and Polycythaemia
(b) Full form of RDW and MCV
(c) Write down the name of venous blood collection site.
(d) Write down the RBC shape, size and Survival rate in days.
(e) Write down the name of test perform in CBC.
(f) Write down the name of haemoglobin estimation method.
(g) Minimum and maximum age limit for blood donor?
(h) What is ESR and write down its normal range.

Q.2 Attempt Any Two: **14**

(a) Write a note on ABO blood group system.
(b) What are the Selection criteria of blood donor?
(c) Explain Hemoglobin derivatives.
(d) Write a note on ESR and PCV.

Q.3 Explain in detail Any Two: **14**

(a) Write a note on Rhesus blood group system & Bombay type.
(b) Write a note on routine haematological tests.
(c) Write a note on Compatibility test - crossmatching
(d) Explain ABO blood grouping methods.

Q.4 Attempt Any Two of the following: **14**

(a) What is Thalassemia? Write down it's symptoms and treatment.
(b) Explain complete hemogram.
(c) Use of blood derivatives explain in detail.
(d) Classification of anemia explain in details.

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