

Council for Technical Education and Vocational Training
Office of the Controller of Examinations
Sanothimi, Bhaktapur

Regular/Back Exam-2080, Mangsir/Poush

Program: Medical Laboratory Technology **Full Marks: 80**

Year/Part: Second Year (2019) **Pass Marks: 32**

Subject: Haematology & Blood Banking **Time: 3 hrs.**

Candidates are required to give their answers in their own words as far as practicable. The figures in the margin indicate full marks.

Group 'A' (Long Question)

Attempt Any Three questions. [3x8=24]

1. Write Blood coagulation mechanism in details.
2. Define blood transfusion reaction. Describe various types of transfusion reactions and their investigation.
3. Define ESR, write principle, requirement, procedure and normal value of ESR by Wintrobe's method.
4. Define stain, write principle, composition, preparation and uses of Romanowsky stain (Wright's stain).

Group 'B' (Short Question)

Attempt Any Eight questions. [8x4=32]

5. How do you Identify different types of WBC under microscopic examination.
6. Write the principle, procedure and significance of direct coomb's test.
7. Describe erythroblastosis foetalis due to Rh factor.
8. Describe working principle and application of Automated blood cell analyzer.
9. Describe Erythropoiesis.
10. Define Anemia. Classify with examples.
11. Write the principle, procedure and significance of prothrombin time.
12. Describe Blood sample collection method by veinpunctain.
13. Sickling test.
14. Write the various steps of Thromobopoiesis.

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Group 'C' (Very Short Question)

Attempt Any Twelve questions.

[12x2=24]

15. Write the normal values of Haemoglobin (Hb) in different age groups.
16. CPDA.
17. Reticulocytes.
18. Romanowsky stains.
19. Screening of blood bag.
20. Major cross match.
21. Anti-human globulin (AHG).
22. Bombay blood groups.
23. Enlist blood parasites.
24. Eosinophils.
25. Drabkin's solution.
26. Cleaning of microscope.
27. Enlist the pre-analytic error.
28. List the various types of Anticoagulants.

Good Luck !