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Roll No.

**3rd Sem / Branch : MLT
Sub.: Clinical Haematology - I**

Time : 3Hrs.

M.M. : 60

SECTION-A

Note: Multiple choice questions. All questions are compulsory (6x1=6)

Q.1 Expand PCV.

- a) Packed column value
- b) Packed cell Volume
- c) Possible Cell Volume
- d) Packed Cement Volume

Q.2 Which of the following type of fragility occurs due to exposure to hypotonic saline?

- a) Mechanical fragility b) Technical fragility
- c) Electrical fragility d) Osmotic fragility

Q.3 How would you classify this anemia morphologically?

- a) Microcytic b) Macrocytic
- c) Normochromic d) Unable to tell

Q.4 Expand MCHC.

- a) Macro Corpuscular Hemoglobin concentration
- b) Mean corpuscular Hemoglobin concentration
- c) Micro Corpuscular Hemoglobin concentration
- d) Metro corpuscular Hemoglobin concentration

Q.5 Rate of settling of erythrocytes in anticoagulated undisturbed whole blood is called _____?

- a) ESR b) PCV
- c) Rouleaux d) PVC

Q.6 Normal range hemoglobin in Male _____

- a) 13.5 - 17.5 b) 11.5 - 15.5
- c) 9.5 - 11.5 d) 12.5- 16.5

SECTION-B

Note: Objective/Completion type questions. All questions are compulsory. (6x1=6)

Q.7 Reticulocytes are immature red blood cells. (True/False)

Q.8 Define Isotonic solution.

Q.9 Define the term Hemolytic anemia.

Q.10 Blood is a composition of _____ and blood cells.

(1)

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(2)

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Q.11 What is the role of Hemoglobin?

Q.12 Write the formula for calculation of MCHC.

SECTION-C

Note: Short answer type questions. Attempt any eight questions out of ten questions. $(8 \times 4 = 32)$

Q.13 Write the difference between westergreen & wintrobe tubes.

Q.14 Write the symptoms of anaemia.

Q.15 Write the normal ranges of MCV, MCH, MCHC & PCV.

Q.16 Describe the causes of Megloblastic anaemia.

Q.17 Write the errors occurs during the ESR estimation.

Q.18 Define recticulocytes and draw labelled diagram.

Q.19 Define red cell fragility & draw the structure of red cell during graptility test.

Q.20 Name the equipment used in haematology laboratory.

Q.21 Describe clinical significance of Red cell fragility.

Q.22 Explain tart cell with well labeled diagram.

SECTION-D

Note: Long answer type questions. Attempt any two questions out of three questions. $(2 \times 8 = 16)$

Q.23 What is supravital stain and write its composition. Also, give brief description of staining procedure.

Q.24 Describe the principle, procedure, and clinical significance of PCV.

Q.25 What is megloblastic anamia? Describe its lab diagnosis.