

No. of Printed Pages : 4
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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

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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 setting 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.

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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. (8x4=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 reticulocytes and draw labelled diagram.
- Q.19 Define red cell fragility & draw the structure of red cell during grapility 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.

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SECTION-D

Note: Long answer type questions. Attempt any two questions out of three questions. (2x8=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 megaloblastic anamia? Describe its lab diagnosis.

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