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**3rd Sem. / MLT**

**Subject : Clinical Haematology-III**

Time : 3 Hrs.

M.M. : 100

**SECTION-A**

**Note:** Objective type questions. All questions are compulsory (10x1=10)

- Q.1 Blood is a suspension of \_\_\_\_\_ in plasma.
- Q.2 Haemoglobin enters into \_\_\_\_\_ after death of RBC.
- Q.3 In megaloblastic anaemia the size of RBC's are \_\_\_\_\_ than normal.
- Q.4 The megaloblastic cell have shorter life span than normal red blood cell. (True/False)
- Q.5 Acute major blood loss develops \_\_\_\_\_.
- Q.6 Vitamin C, amino acids increase iron absorption rate. (True/False)

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Q.7 GIT stands for \_\_\_\_\_.

Q.8 ESR is a \_\_\_\_\_ property of blood.

Q.9 The normal platelet count is between \_\_\_\_\_ and \_\_\_\_\_.

Q.10 The normal PCV value in females is \_\_\_\_\_.

**SECTION-B**

**Note:** Very short answer type questions. Attempt any ten questions out of twelve questions. 10x2=20

- Q.11 Define rouleaux.
- Q.12 Name any two methods used for ESR estimation.
- Q.13 Write the formula for calculation of MCHC.
- Q.14 What are hypochromic cells?
- Q.15 Write the composition of supravital stain.
- Q.16 Define megaloblastic anaemia.
- Q.17 Write a short note on pernicious anaemia.
- Q.18 Define isotonic solution.

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Q.19 Write the factors affecting red cell fragility test.

Q.20 Which anaemia is caused by deficiency of vitamin B<sub>12</sub>?

Q.21 What is the role of haemoglobin?

Q.22 Explain the different factors involved in ESR.

### SECTION-C

**Note:** Short answer type questions. Attempt any eight questions out of ten questions. 8x5=40

Q.23 Explain the different factors involved in PCV.

Q.24 Draw a labelled diagram of westergreen's and wintrobe's tube.

Q.25 Explain the physiological variation in Hb.

Q.26 Write the merits and demerits of ESR estimation.

Q.27 Explain bone marrow disease anaemia

Q.28 What happens when MCV & MCH values are low?

Q.29 Explain the term dietary iron.

Q.30 Write a short note on iron deficiency anaemia.

Q.31 Explain dysshaemorrhagic anaemia.

Q.32 Write the lab diagnosis of megaloblastic anaemia.

### SECTION-D

**Note:** Long answer type questions. Attempt any three questions out of four questions. 3x10=30

Q.33 Explain the principle & significance of red cell fragility test.

Q.34 Describe the principle, procedure & clinical significance of PCV.

Q.35 Explain the physiological variation in the value of TLC.

Q.36 Explain various classification of anaemia.

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