DMLT/DMRT EXAMINATION BOARD, ODISHA

SECOND D.M.L.T. Annual Exam Of 2021

QUESTIONS (PATHOLOGY, PAPER-I)

(IMMUNO-HAEMATOLOGY, BLOOD BANKING & CLINICAL HAEMATOLOGY)

Time- 3 Hours **FULL MARKS:100**

Answer all questions

1. **Answer any TWO:** (15x2=30)

   a. Enumerate the Romanowsky stains. Describe the composition of Leishman's stain. Write the staining procedure of peripheral blood smear. Describe the morphology of different WBCs in a Leishman-stained smear. [2+2+3+8=15]

   b. Describe the Blood donation in detail under the following headings: [i] Steps involved in voluntary blood donation, [ii] Criteria for Donor selection, [iii] Phlebotomy procedure, [iv] Donor reactions and [v] Donor unit processing. [2+5+3+2+3=15]

   c. What are the different types of sample collection methods for urine examination with their indications? Enumerate the different chemical tests performed in a sample of urine. Describe the principle and procedure of Heat and acetic acid test and Rothera's test. [2+7+6=15]

2. **Write short notes on any FIVE:** (6x5=30)

   a. Laboratory anticoagulants.
   b. Antiglobulin tests – principles and procedures.
   c. Specific gravity of urine.
   d. Donor selection
   e. Blood components.
   f. Transfusion reactions

3. **Write briefly on any TWO:** (5x2=10)

   a. Wintrobe's tube

   b. Benzidine test – principle and procedure.

   c. Fresh frozen plasma [FFP].

4. **Fill in the blanks:** (1x10=10)

   a. _____ blood group is commonly known as the Universal recipient.

   b. Anticoagulants used for blood banking are _____.

   c. Major cross-matching is done using _____ of the recipient.

   d. Tests done for demonstration of hemoglobinuria is _____.

   e. _____is the ideal method of hemoglobin estimation .

   f. Example of supravital stain is _____.

   g. Cryoprecipitate is rich in _____ factor.

   h. Two causes of eosinophilia are _____ & _____.

   i. _____ hormone stimulates erythropoiesis [RBC formation].

   j. Bone marrow aspiration is done using _____ needle.

5. **Match the following:** (2x5=10)

a. Lavender top tube	1. Biochemical study
b. Blue top tube	2. ESR estimation
c. Red top tube	3. Coagulation study
d. Gray top tube	4. Hemogram
e. Black top tube	5. Blood glucose estimation

6. **Write the full form of the following:** (2x5=10)

   a. RDW

   b. MCV

   c. MCH

   d. PCV

   e. MCHC

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