



বিদ্যাসাগর বিশ্ববিদ্যালয়

VIDYASAGAR UNIVERSITY

BMLT

3rd Semester Paramedical Examination 2021

HAEMATOLOGY

PAPER—VII (Unit-13)

Full Marks : 40

Time : 2 Hours

The figures in the right-hand margin indicate full marks.

Candidates are required to give their answers in their own words as far as practicable.

Illustrate the answers wherever necessary.

Group - A

Answer any *two* questions.

2×10

1. (a) Write the mode of action of EDTA and heparin to serve as anticoagulant.
- (b) “Venous blood is more preferable than capillary blood for CBC test”
– Justify the statement.

(c) Write the composition of RBC diluting fluid with their proper function.
(2+2)+3+3

2. (a) Briefly discuss the blood collection procedure from brachial vein.

(b) Write the importance of blood test before marriage.

(c) Why megaloblastic anemia developed in pregnancy period? 4+3+3

3. (a) Discuss extrinsic pathway of blood coagulation.

(b) What is polycythemia Vera?

(c) When arterial blood is taken? 5+3+2

4. (a) What is ESR? Write the significance of it.

(b) What do you mean by hypochromic microcytic anemia?

(c) Which anticoagulant do you prefer for CBC and why?
(2+2)+3+(1+2)

Group - B

Answer any *four* questions. 4×5

5. Write a short note on "sickle cell anemia".

6. What is Reticulocyte? Which staining method adopted for reticulocyte count? How you separate it from RBC? 2+1+2

7. What do you mean by Paroxysmal nocturnal hemoglobinuria (PNH)? Write the clinical feature of PNH. 3+2

8. Write the name of anticoagulant used in blood bag. Mention the proper function of this anticoagulant ingredient separately. 1+4

9. What is the basic difference between Thalassemia minor and silent carrier based on genotype. What changes occurred in CBC profile of these two groups patients. 2+3
10. Distinguish between PT and APTT. "G-6-PD deficiency can cause anemia"
– Justify the statement. 2+3
11. Write the names of different clearing agent in heamatology laboratory. Write briefly the method of laboratory reports preparation. 2+3
12. What do you mean by 'prothrombin time'? What happen when coagulation factor VIII and platelet deficiency are noted in a patient? 2+3
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