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BACHELOR OF SCIENCE (LABORATORY SCIENCES) (CBCS - 2019 COURSE)
B.Sc. (Lab Sci) Sem-III : WINTER- 2022
SUBJECT : HEMATOLOGY & CLINICAL PATHOLOGY

Day : Monday

Time : 10:00 AM-12:00 PM

Date : 16-01-2023

W-22557-2022

Max. Marks : **20**

N.B.

- 1) There are **THREE** section as
Section A :- Objective Type questions : 20 marks
Section B :- Long Answer Questions : 20 marks
Section C :- Short Answer Questions : 20 marks
- 2) Section A is given on **SEPARATE** sheet and has to be answered on **SAME** sheet.
This sheet should be completed within **first 20 minutes** of starting of the examination. The sheet with **section A** will be collected by Supervisor at the end of 20 minutes.
- 3) You have to make such kind of mark in the box of the appropriate answers.

Seat No. : _____

SECTION – A

M.CQ.'s

(20)

Q.1 What is the normal WBC?

- 2-8x10⁹ WBCs/L
- 4-10x10⁹ WBCs/L
- 10-20x10⁹ WBCs/L
- 4-5x10⁹ WBCs/L

Q.2 Where does haematopoiesis take place in adults?

- Lungs
- Pancreas
- Liver
- Bone marrow.

Q.3 Production of RBC in bone marrow is regulated by

- Renin
- Calcium
- Erythropoietin
- Angiotensin

Q.4 Which is the cell of chronic inflammation?

- Neutrophil
- Lymphocyte
- Monocyte
- Plasma cell

PTO

Q.5 Which vacutainer is used for Complete blood count studies?

- Citrate
- EDTA
- Sodium fluoride
- Plain

Q.6 Megakaryocytes give rise to

- Erythrocytes
- Granulocytes
- Thrombocytes
- Lymphocyte

Q.7 Most of the volume of normal human blood is composed of:

- red cells
- hemoglobin
- plasma
- white cells

Q.8 Causes of microcytic hypochromic anemia are all except

- Iron deficiency
- Aplastic anemia
- Sideroblastic anemia
- Vit B12 deficiency

Q.9 Erythrocyte Sedimentation Rate. The erythrocyte sedimentation rate measures what?

- The height of the white blood cells that have settled in a stationary, vertical tube at the end of 1 hour
- The height of the red blood cells that have settled in a stationary, vertical tube at the end of 1 hour.
- The length of the red blood cells that have settled in a stationary, horizontal tube at the end of 1 hour.
- The length of the white blood cells that have settled in a stationary, horizontal tube at the end of 1 hour.

Q.10 Which of the following statements about erythrocytes is correct?

- They fight infection.
- They clot blood.
- They lack a nucleus.
- They are produced in the spleen.

Total Marks obtained : _____

Signature of Invigilator

Signature of Examiner

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- 5) There are **THREE** section as
Section A :- Objective Type questions : 20 marks
Section B :- Long Answer Questions : 20 marks
Section C :- Short Answer Questions : 20 marks
 - 6) Section B has four long answer questions and **ANY TWO** questions have to be answered.
 - 7) Section C has six short answer questions and **ANY FIVE** questions have to be answered.
 - 8) Section B and C should be written in **SAME** answer sheet.
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SECTION – B

Long answer questions (attempt ANY TWO) (20)

- 1) Classify anemia write a note on iron deficiency anemia.
- 2) Enumerate cells in bone marrow write indications and sites for bone marrow examination.
- 3) Write a note on physical examination of urine.
- 4) Describe various leukemia with morphological features.

SECTION – C

Short answer questions (attempt ANY FOUR) (20)

- 1) Order of draw
- 2) Criteria for ideal peripheral smear
- 3) Draw eosinophil
- 4) Write a note on blood parasites
- 5) Write principle of rothra's test
- 6) Mention causes of thrombocytopenia.
