

BACHELOR OF SCIENCE (LABORATORY SCIENCES) (CBCS - 2019 COURSE)
B.Sc. (Lab Sci) Sem-V : WINTER- 2022
SUBJECT : BLOOD BANKING

Day : Friday

Time : 10:00 AM-12:00 PM

Date : 20-01-2023

W-22573-2022

Max. Marks : 20

N.B.:

- 1) There are three sections 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 in **SEPARATE** sheet and has to be answered on same sheet. This sheet should be completed with the first **20** minutes of starting of the examination. This sheet with Section A only will be collected by Supervisor.
- 3) Section B has four long questions and any **TWO** questions have to be answered.
- 4) Section C has six short questions and any **FOUR** questions have to be answered.
- 5) You have to make such kind of mark in the box of the appropriate answers.

Seat No. _____

SECTION – A

M.C.Q's

1. Antigen A is detected by
 - a) Anti A
 - b) Anti B
 - c) Anti D
 - d) Coombs' reagents
2. Saline cross match detects following type of a antibodies:
 - a) IgG
 - b) IgM
 - c) IgA
 - d) IgE
3. Which antibodies cross the placenta?
 - a) IgG
 - b) IgA
 - c) IgM
 - d) IgE
4. Which is not the ingredient of cryoprecipitate?
 - a) Albumin
 - b) Factor VIII
 - c) Fibrinogen
 - d) Factor IX

P.T.O.

5. Antihuman globulin test is used to detect which antibodies?

- a) IgA
- b) IgG
- c) IgM
- d) All of the above

6. Deficiency of factor VIII is called as _____.

- a) Thalassemia
- b) Sickle cell anaemia
- c) Aplastic anaemia
- d) Haemophilia

7. Hepatitis B is not transmitted through _____.

- a) Contaminated food
- b) Contaminated blood transfusion
- c) Contaminated blood component
- d) Injections by contaminated needles

8. VDRL test is used to detect infection by _____.

- a) Syphilis
- b) Hepatitis B
- c) Malaria
- d) HIV

9. Which is the universal blood donor group?

- a) O Rh positive human RBCs
- b) A Rh positive human RBCs
- c) B Rh positive human RBCs
- d) O Rh positive whole blood

10. Anticoagulant act by chelating which ions?

- a) Na⁺
- b) K⁺⁺
- c) Ca⁺⁺
- d) Cl⁻

Total Marks Obtained: _____

Signature of Invigilator: _____

Signature of Examiner: _____

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Max. Marks : 40

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- 1) There are three sections as
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Section – B = Long Answer Questions - 20 marks.
Section – C = Short Answer Questions - 20 marks.
 - 2) Section B has four long questions and any **TWO** questions have to be answered.
 - 3) Section C has six short questions and any **FOUR** questions have to be answered.
 - 4) Answer to both the sections should be written in **SAME** answer book.
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SECTION – B

Long answer (attempt **ANY TWO**): **[20]**

- 1) What is ABO blood group system?
- 2) Which are the types of Blood components?
- 3) Explain Organization, management and planning of a blood center.
- 4) Explain National Accreditation criteria for a blood center.

SECTION – B

Short answer (attempt **ANY FOUR**): **[20]**

- 1) What do you mean by Column Agglutination technique?
- 2) What is Landsteiner's Law?
- 3) What are the types of ELISA?
- 4) Which investigations are done in blood transfusion reactions?
- 5) Apheresis.
- 6) Rh Incompatibility

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