

Roll No.

Total No. of Pages : 02

Total No. of Questions : 11

B.Sc (Cardiac Care Technology) (Sem.-3)

ANATOMY AND PHYSIOLOGY OF CARDIOVASCULAR SYSTEM

Subject Code : BCCT-301-21

M.Code : 92687

Date of Examination : 12-12-22

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :

1. **SECTION-A** is **COMPULSORY** consisting of **EIGHT** questions carrying **TWO** marks each.
2. **SECTION-B** contains **EIGHT** questions carrying **FOUR** marks each and students have to attempt any **SIX** questions.
3. **SECTION-C** will comprise of two compulsory questions with internal choice in both these questions. Each question carries **TEN** marks.

SECTION-A

1.
 - a) What is the difference of SA node and AV node?
 - b) Why blood transfusion cause hypocalcemia?
 - c) Write Fick principle and its equation.
 - d) Write cardiac innervations and its types.
 - e) Write down the mechanical events of the cardiac cycle.
 - f) What is stroke and what is the cause of the stroke?
 - g) What does lymphatic drainage do?
 - h) What are the 5 points of auscultation of the heart?

SECTION-B

2. Write down coagulation definition, coagulation pathways and disorders of the coagulation.

3. Write detailed note on the cardiac output. How cardiac output measured and calculated?
4. What is hematology? What is difference between the hematologist and hematopathologist?
5. What is cardiac output? How it can be measured and what are the factors influencing the cardiac output? Discuss about the Fick's principle.
6. What is Cerebral circulation? Describe in detail Anterior cerebral circulation, Posterior cerebral circulation and Venous drainage.
7. Describe about systemic circulation.
8. Write a note on the structural features of the Atrium and Ventricle.
9. What are types of the WBC's and functions?

SECTION-C

10. Define and classify Anaemia. Write a note on blood transfusion.

Or

Write a note on the anatomy and physiology of heart and its parts.

11. Describe about the mechanical events of the cardiac output.

Or

Describe the hepatic portal system.

NOTE : Disclosure of Identity by writing Mobile No. or Marking of passing request on any paper of Answer Sheet will lead to UMC against the Student.