## **Question Paper**

Exam Date & Time: 19-Apr-2022 (10:00 AM - 12:00 PM)



## MANIPAL ACADEMY OF HIGHER EDUCATION

THIRD SEMESTER B.Sc. PERFUSION TECHNOLOGY DEGREE EXAMINATION - APRIL 2022 SUBJECT: PFT2101 - INTRODUCTION TO PERFUSION TECHNOLOGY (2020 SCHEME)

Answer ALL questions.

4E)

Gross Well Technique

Draw neat diagram wherever required.

Marks: 50 Duration: 120 mins. Essay: Describe various types of blood pumps, ideal characteristics of blood pumps. Describe the (10)1) difference between pulsatile versus non-pulsatile blood pumps What is CPB? Write the basic principles of CPB. Draw a diagram of Extracorporeal Circuit 2) (10)3. Write short notes: 3A) Hemostatic monitoring during CPB (5)What are the preoperative investigations done in a patient before cardiac surgery, and explain its 3B) (5)clinical importance with their normal values. 3C) Blood transfusion and its complications. (5)3D) Explain principles of venous drainage and types of assisted venous drainage. Enlist the reasons for (5) poor venous drainage 4. Short Answers: Different types of Filters 4A) (2)4B) Draw a normal ECG wave form and label the different waves (2)Tubing's and connectors 4C) (2)4D) Sites of Arterial cannulation (2)

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(2)