VINAYAKA MISSION'S RESEARCH FOUNDATIONS, SALEM (Deemed to be University)

B.Sc. (PERFUSION TECHNOLOGY) DEGREE EXAMINATION - February 2020 Second Year

INTRODUCTION TO PERFUSION TECHNOLOGY

Time:	Three hours	Maximum: 75 marks
I. Wri	ite an essay on any ONE of the following:	$(1 \times 20 = 20)$
1.	Membrane oxygenators, types and merits.	
2.	Heat exchanger, material, principles and function.	
II. Wi	rite short notes on any TWO of the following:	$(2 \times 10 = 20)$
3.	Cardioplegia delivery system.	
4.	Suctions – vent and cardiotomy.	
5.	Ideal blood pump.	
6.	Aseptic technique followed during CPB.	
111. W	rite short answers on any SEVEN of the following:	(7 x 5 = 35)
7.	. Who were Dr. John Gibbons, Dr. Walton Lillehei and Dr. Debakey?	
8.	The purpose of cooling down the patient.	
9.	The use of chest X – ray in cardiac cases.	
10.	Filters used in CPB.	
11.	Write notes on blood pH, respiratory acidosis and alkalo	osis.
12.	Tubings used in CPB circuits.	
13.	Cardioplegia types.	
14.	Blood groups that are known to you.	
15.	Centrifugal blood pump.	

16. Venous drainage.