

VINAYAKA MISSIONS UNIVERSITY, SALEM

B.Sc. (PERFUSION TECHNOLOGY) DEGREE EXAMINATION

August 2017

Third Year

PERFUSION TECHNOLOGY - CLINICAL

Time: Three hours

Maximum: 75 marks

I. Write an essay on any ONE of the following: (1 x 20 = 20)

1. Membrane oxygenator- types
2. What are the types of cardioplegia that you know?

II. Write short notes on any TWO of the following: (2 x 10 = 20)

3. Drugs mostly used by perfusionists
4. Describe the methods of termination of bypass
5. Materials used in a heat exchanger and modes of heat transfer
6. Merits and demerits of haemodilution

III. Write short answers on any SEVEN of the following: (7 x 5 = 35)

7. Bubble oxygenator and its inventors
8. Heat exchanger and the materials used
9. What are anti-fibrinolytic drugs?
10. The advantages of pulsatile flow
11. How does blood flow through capillaries and metarterioles?
12. Explain vasoplegia
13. What happens in fast rewarming?
14. What is meant by a pressure drop in a membrane oxygenator?
15. How is retrograde cardioplegia given and at what deliver pressure?
16. The vasodilators and vasoconstrictors used during CPB
