

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

B.SC (PERFUSION TECHNOLOGY) DEGREE EXAMINATION - September 2021

**Third Year
PERFUSION TECNOLOGY - ADVANCED**

Three Hours

Maximum: 75 marks

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

1. State any recent advances in perfusion technology
2. Explain Thoracic aortic Dissection & Aneurysms

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

3. Is arterial line filter needed in paediatric perfusion? Explain
4. Write notes on Arterial Blood Gas and its uses.
5. What are the causes of Poor Venous Return and what will be your management?
6. How will you perform MUF safely without any complications? Specify the anticipated complications and also explain to overcome it?

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

7. Oxygen Toxicity
8. Haematuria after Bypass.
9. Write about the disadvantages of Blood Prime.
10. What are the causes of High arterial line pressures?
11. Write about the rate of Rewarming and cooling during bypass and its effects.
12. Mean arterial pressure during CPB
13. Potassium measurement & its importance
14. TCA protocol and how safe you can give low flows at different temperature –prepare a chart?
15. What is ECMO and state its benefits and discuss ECMO related complications?
16. Mention the common complications during Aortic and Venous Cannulation.
