

VINAYAKA MISSIONS UNIVERSITY, SALEM

B.Sc. (PERFUSION TECHNOLOGY) DEGREE EXAMINATION

August 2017

Third Year

PERFUSION TECHNOLOGY - APPLIED

Time: Three hours

Maximum: 75 marks

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

1. What are the effects of IABP? Where is it used and where is it contraindicated?
2. Write about blood conservation during CPB

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

3. Complication of protamine sulphate administration
4. Monitoring methods of anti- coagulation during CPB
5. What is ultrafiltration and state its benefits to the patient?
6. What is DIC? What causes DIC during CPB

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

7. Write about arterial line filters
8. How is LVAD connected to the patient?
9. What is HIT and what anticoagulant is used instead of heparin?
10. What are the physical forces that affect blood cells during CPB?
11. What is platelet aggregation and what causes it during CPB?
12. What do you mean by gaseous microemboli?
13. What do you mean by haemofiltration?
14. How will you minimize inflammatory response due to CPB?
15. What is autologous priming method?
16. Write about the IABP position in a patient
