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Rajiv Gandhi University of Health Sciences, Karnataka

III Year B.Sc. Perfusion Technology Examination – OCT-2019

Time: Three Hours

Max. Marks: 100 Marks

PERFUSION TECHNOLOGY APPLIED, PAPER – II (RS)

Q.P. CODE: 2924

Your answers should be specific to the questions asked.

Draw neat, labeled diagrams wherever necessary

LONG ESSAYS (Answer any Two)

2 x 10 = 20 Marks

1. Ventricular assist devices
2. Systemic inflammatory response syndrome
3. Alteration in hormones, electrolytes and metabolic response during CPB

SHORT ESSAYS (Answer any Ten)

10 x 5 = 50 Marks

4. Blood cell trauma
5. Effect of CPB on lung
6. Low molecular weight heparin
7. Techniques used to reduce blood loss during cardiac surgery
8. Depth filter
9. Explain IABP waveform and criteria for effective IABP timing.
10. MUF
11. Explain the factors which augments ultrafiltration rate.
12. Heartmate II
13. Cell saver
14. Hemodialysis during CPB
15. Oncotic pressure and its significance during CPB

SHORT ANSWERS (Answer any Ten)

10 x 3 = 30 Marks

16. Indication of ultrafiltration
17. Biological emboli and its causes
18. Coagulopathies due to CPB and its management
19. Retrograde autologous priming
20. Pre-bypass filter
21. Biomaterial
22. Whole blood content
23. Late deflation
24. Coagulation pathway
25. Protamine
26. Platelet dysfunction on CPB
27. Complement activation



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