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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 ADVANCED, PAPER – III (RS)

Q.P. CODE: 2925

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. Write an essay on different types of ventricular septal defects, clinical diagnosis and its management.
2. Write an essay on surgical plans for minimally invasive cardiac surgery.
3. An oxygenator manufacturing company wants you to design an oxygenator. As a perfusionist what are the design characteristics you will incorporate in the oxygenator.

SHORT ESSAYS (Answer any Ten)

10 x 5 = 50 Marks

4. Prebypass ultrafiltration
5. Advantages and disadvantages of pulsatile perfusion
6. Retrograde cardioplegia delivery
7. Neurological monitoring during CPB
8. Compare and contrast roller pump with centrifugal pump.
9. Gas exchange principles in oxygenators
10. Write any three shunts in pediatric heart surgery in detail.
11. Blood vs crystalloid cardioplegia
12. Write any three anaesthetic drugs used during CPB.
13. Volatile inhalational agents used in CPB
14. Cardioplegia administration – routes, methods and pressure of delivery.
15. Blood conservation measures in pediatric CPB

SHORT ANSWERS (Answer any Ten)

10 x 3 = 30 Marks

16. Antiarrhythmic drugs while coming of CPB
17. KAVD
18. Pharmacological IABP
19. Air oxygen mixer
20. MIDCAB
21. North south syndrome in ECMO
22. Recirculation in ECMO
23. Conventional ultrafiltration
24. Protamine reaction
25. Perfusionist role in transplant
26. Perfadex
27. Plasmalyte



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