

Rajiv Gandhi University of Health Sciences

Second Year M.Sc. (Perfusion Technology) Degree Examination - OCT-2019

[Time: 3 Hours]

[Max. Marks: 100]

Cardiac and Robotic Cardiac Surgery (RS-2)

Q.P. CODE: 9086

Your answers should be specific to the questions asked.
Draw neat labeled diagrams wherever necessary. Answer all questions

LONG ESSAY

2 X 20 = 40 Marks

1. Difference between three generations of Thoratec VAD devices. Use the pointers below to justify answer for each generation
 - a) Explain the types
 - b) Working principle
 - c) Complications of each
2. Explain the principles and application of intravascular counter pulsation technique.

SHORT ESSAY

6 X 10 = 60 Marks

3. Right Mini Thoracotomy for Aortic Valve Repair
 - a) Perfusion strategies
 - b) Advantages and disadvantages of the procedure
4. Da Vinci surgical system
5. Hybrid TECAB
6. Describe the physiology of ECMO.
7. Role of MCS devices in primary graft failure following heart transplant
8. Harlequin syndrome

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