

Rajiv Gandhi University of Health Sciences

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

[Time: 3 Hours]

[Max. Marks: 100]

Equipments in Perfusion Technology and Physiology and Pathology of Perfusion

Q.P. CODE: 9083

Your answers should be specific to the questions asked.

Draw neat, labeled diagrams wherever necessary.

LONG ESSAY**2 X 20 = 40 Marks**

1. Discuss about OXYGEATORS, under the following headings.
 - a) Oxygenators principles
 - b) Types of oxygenators
 - c) Gas diffusion in oxygenators
 - d) Heat exchangers
 - e) Recent advances
2. Effect of CPB on various organ system and its management
 - a) Immune and inflammatory response
 - b) On platelets and other blood cells

SHORT ESSAY**6 X 10 = 60 Marks**

3. Peripheral arterial cannulation
4. Colloidal solutions in the prime
5. Roller pump vs centrifugal pump
6. Total circulatory arrest
7. Veno venous ecmo
8. Embolism preventive strategies in CPB

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