

Q.P. CODE: 213016

Reg. No:

**Second Year B.Sc Perfusion Technology Degree Regular/Supplementary
Examinations January 2021**

Introduction to Perfusion Technology

(2016 Scheme)

Time: 3 Hrs

Max. Marks:100

- *Answer all questions to the point neatly and legibly • Do not leave any blank pages between answers • Indicate the question number correctly for the answer in the margin space*
- *Answer all parts of a single question together • Leave sufficient space between answers*
- *Draw diagrams wherever necessary*

Essays:

(2x15=30)

1. What are the characteristics of an ideal blood pump. Differentiate between pulsatile and non-pulsatile blood flow. What are the different types of blood pumps available and enumerate the advantages of each.
2. Describe the monitoring during CPB. What is pH stat and alpha stat. What is metabolic acidosis and how is it managed.

Short notes:

(5x7=35)

3. Oxygen dissociation curve
4. Delnido cardioplegia
5. Controlled cross circulation
6. Hypothermia in CPB
7. Cell saver

Answer briefly:

(7x5=35)

8. Advantages of blood priming
9. Thromboelastogram
10. Neonatal CPB
11. Advantages of leucofiltered blood
12. Fetal circulation
13. Complications of venting
14. Mannitol
