Q.P. Code: 313016	Reg. No:

Third Year B.Sc Perfusion Technology Degree Regular/Supplementary Examinations December 2020

Perfusion Technology - Advanced

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)

- What is ECMO. Describe the indications, circuitry and monitoring of ECMO.
 Differentiate between veno-arterial and veno-venous ECMO.
- 2. Describe the differences between adult and paediatric CPB. What are the technologies for neuro monitoring in paediatric CPB. Mention the advantages of modified ultrafiltration in paediatric CPB.

Short notes: (5x7=35)

- 3. Mini bypass circuit
- 4. Endoaortic clamping
- 5. IABP
- 6. Perfusion accidents
- 7. Retrograde cerebral perfusion

Answer briefly: (7x5=35)

- 8. Bivalirudin.
- 9. Cannulation strategies for minimally invasive cardiac surgery
- 10. CPB in pregnancy
- 11.NIRS
- 12. HTK solution
- 13. Complications of endoaortic clamping
- 14. Kinetic assisted venous drainage
