Q.P. CODE:	Reg. No:	
Third Year B.Sc Perfusion Technology Degree Examinations,	September 2015	
Paper-I Perfusion Technology Clinical		
Time: 3 Hrs	Max. Marks: 100	
Answer all questions Draw diagram wherever necessary		
Essays:	(2×15=30)	
1. A 62 years old man was diagnosed to have triple vessel disea 165cm, and weight 80 Kg. How will you proceed to conduct and pulmonary bypass?	_	
2. Discuss the principles and methodology for termination of obypass.	cardio pulmonary	
Short notes:	(5x7=35)	
<ul><li>3. Pulsatile flow.</li><li>4. Cardioplegia.</li><li>5. Priming Fluids.</li><li>6. Complications of heat exchanger and its management.</li><li>7. Haemodilution.</li></ul>		
Answer briefly:	(7x5=35)	
<ul> <li>8. Changes in Drug Pharmacokinetics due to CPB.</li> <li>9. Controlled reperfusion.</li> <li>10. Myocardial protection.</li> <li>11. Bubble oxygenators.</li> <li>12. Non -cardioplegic methods during cardiac surgery on CPB.</li> <li>13. Adequacy of perfusion.</li> <li>14. Amidarone.</li> </ul>		

Q.P. CODE:	Reg. No:	
Third Year B.Sc Perfusion Technology Degree Examinations,	, September 2015	
Paper-II Perfusion Technology .Applied		
Time: 3 Hrs	Max. Marks: 100	
Answer all questions Draw diagram wherever necessary		
Essays:	(2×15=30)	
1. Discuss in detail inflammatory responses during cardiopuclinical effects. What are the methods to minimise them?	ulmonary bypass & its	
2. Discuss the principles of anticoagulation on cardio pulmo you monitor and reverse heparin effect. What are its complex		
Short notes:	(5x7=35)	
<ol> <li>Modified ultra filtration.</li> <li>Methods of blood conservation during cardiopulmonary bypass.</li> <li>Priming fluids.</li> <li>IABP.</li> <li>Coagulopathies during CPB and its management.</li> </ol>		
Answer briefly:	(7x5=35)	
<ul> <li>8. Prevention &amp; treatments of Acute Lung Injury in CPB.</li> <li>9. Thrombo elastogram.</li> <li>10. Aprotinin.</li> <li>11. Unusual problems in CPB.</li> <li>12. Bivalirudin.</li> </ul>		

13. Management of protamine reaction.14. Complications of blood transfusion.

Q.P. CODE:	Reg. No:
Third Year B.Sc Perfusion Technology Degree E	xaminations, September 2015
Paper-III Perfusion Techno	ology. Advanced
Time: 3 Hrs	Max. Marks: 100
Answer all quest Draw diagram whereve	
Essays:	(2×15=30)
1. Discuss the indications, contra-indications ar ECMO.	nd complications associated with
2. What are the complications during CPB? Descomplication.	cribe how you will manage each
Short notes  3. Perfusion for minimally invasive cardiac surg 4. Uses of CPB in non cardiac surgery 5. Special considerations in perfusion during ca 6. Spinalcord protection in aortic surgery. 7. Recent advances in perfusion techniques.	
Answer briefly:	(7x5=35)

- 8. Measures to improve cardiac surgery teamwork.
- 9. Left heart bypass.
- 10. Myocardial protection and preservation for neonates and infants.
- 11. Milrenon.
- 12. Coronary angiogram.
- 13. Deep hypothermic circulatory arrest.
- 14. Non cardiac uses of CPB.