### SREE CHITHRA TIRUNAL INSTITUTE FOR MEDICAL SCIENCES AND TECHNOLOGY

### WRITTEN TEST FOR MFCP OF PERFUSIONIST - A TO B

1. The first arterial switch operation	was performed by			
<ul><li>a) Scwann</li><li>b) Jatene</li><li>2. The first centrifugal pump was dev</li></ul>	c) Lillehie d) none of the above veloped by			
<ul><li>a) John Gibbon</li><li>b) Dennis Papin</li><li>3. Who isolated heparin first?</li></ul>	c) Forest Dodrill d) Walton Lillehie			
a) Wilfred Bigelow b) Jay McLean 4. Recommendation from society of glucose management in Diabetic and	c) Donald Hill d) Clarence Crafoord Thoracic surgeons (STS) regarding intra- operative d non- diabetic patients is			
a) Glucose level < 150 mg/d b) Glucose level < 180 mg/d 5. 300 ml FFP contains approximate	d) none of the above			
a) 30,000 IU b) 3000 IU 6. Safest Bivalirudine infusion dose	c) 300 IU d) none of the above for maintaining anticoagulation in CPB is			
a) 1.0 mg/Kg/hr b) 1.5 mg/Kg/hr 7. Most common accidents reported perfusion safety are	c) 2.0 mg/Kg/hr d) 2.5 mg/Kg/hr or higher d in Kurusz et al (1982-85) survey published about			
<ul> <li>a) Protamine reaction, hypo perfusion and gas embolism</li> <li>b) Arterial line embolism, DIC, electrical failure &amp; oxygen failure</li> <li>c) Protamine reactions, coagulopathy &amp; heater cooler failure</li> <li>d) Air embolism, DIC, inadequate perfusion</li> <li>8. Low risk timing of a elective cardiac surgery that requires CPB in pregnant patient is</li> </ul>				
a) first Trimester b) second trimester 9. pH of plasmalyte A solution is	c) third trimester d) before 10 weeks			
a) 7.5 b) 7.4	c) 7.6 d) 4.45			
10. The major source of haemolysis	during CPB is			
a) Bank blood b) Cardiotomy suction	c) Arterial cannula d) Membrane fibres			

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32. First clinical use of o	ontrolled cross circu	lation"for open heart sur	gery was by
a) Kirklin	b) Lillehei	c) Gibbon	d) Barrat- B
33. Harrow type I prota	mine reaction is due	to	
a) rapid adminis b) anaphylactic 34. Inadequate venous	reaction	c) anaphylactoid reaction d) pulmonary vasoconstr in be due all EXCEPT	
a) Hypovolemia b) Malposition of 35. The best brain proto of the following acid ba	ection during deep h	c, Peripheral vasoconstrict d) high reservoir position ypothemic CPB in neonate	
a) alpha stat c) alpha stat cod	oling & pH rewarning	b) pH stat d) pH stat cooling rewaarning	& alpha stat
36. The maximum perm	nissible coronary sinu	is pressure during retrogr	ade cardioplegia i
a) 20 mm Hg	b) 35 mm Hg	c) 50 mm Hg	d) 75 mm Hg
37. All are used for trea	ting hyperkalemia E	XCEPT	
a) Insulin	b) calcium c)	digoxin d) Sodium	polystyrene sulfro
38. Acute Marginal Core	onary artery is a brar	nch of	
<ul><li>b) Diagonal arte</li><li>c) Left Circumfle</li><li>d) Right corona</li></ul>	ex artery ry artery	nythmia post cross clamp	period except
a) Lignocaine	b) Amiodaror	ne c) Propofol	d) Magnes
40. Life span of a norma	al RBC (in days) is	*	
a) 90	b) 70	c) 120 d	) 250
41. Mechanism of actio	n of Heparin is	****	
	Antithrombin 3 f Platelet Factor 4	c) Activation of cGM d) Activation of Factor	
42. Contraindication fo	r use of IABP	*	
a) Aortic Stenos b) Aortic regurg		c) Mitral Stenosis d) Mitral Regurgit	

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4	13. Which is contraindic	ated in vasoplegic p	atient	is .	149	
_	a) Methylene Blu b) Phenyl ephrin 14. Cardiac pacing mode	e	siolog	<ul><li>c) Dobutami</li><li>d) Nor adrer</li><li>gic is</li></ul>		
	a) VOO	b) DDD	4	c) VVI		d) A00
4	45. Heartmate II LVAD is	5				
	a) Extracorporea c) Intracorporea 46. CPB flow rate of nec	Nonpulsatile		b) Paracorpo d) Intracopo		
	a) 75	b) 150		c) 200		d) 100
4	47. Moderator Band is se	een in			*	
	a) RA	b) LA	+	c) RV		d) LV
4	48. The normal blood pl	is between				
	a) 7.25-7.35	b) 7.35-7.45		c) 7.45-7.55		d) 7.15-7.25
-	49. Oxygen dissociation	curve is shifted to r	ight ir	all except		
Į.	a) Hyperthermia b) Decreased 2, c) Acidosis d) Increased pC 50. The most important	3, DPG O <sub>2</sub>	rt ven	ting is to		. Y
	<ul><li>a) improve veno</li><li>b) reduce air em</li><li>c) prevent disten</li><li>d) prevent rewar</li></ul>	bolism sion				

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### **ANSWER KEY**

1. B	11. D	21. A	31. B	41. D
2. B	12. B	22. A	32. B	42. B
3. B	13. A	23. A	33. A	43. C
4. B	14. B	24. B	34. C	44. B
5. C	15. B	25. A	35. B	45. C
6. D	16. C	26. C	36. C	46. B
7. A	17. B	27. D	37. C	47. C
8. B	18. A	28. A	38. D	48. B
9. B	19. B	29. D	39. C	49. B
10. B	20. C	30. D	40. C	50. C

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