



## **BRAINWARE UNIVERSITY**

## Term End Examination 2023-2024 Programme – B.Sc.(PA)-2021 Course Name – Cardio-Vascular & Thoracic Surgery Course Code - BPAC501 ( Semester V )

Full Marks: 60

Time: 2:30 Hours

[The figure in the margin indicates full marks. Candidates are required to give their answers in their own words as far as practicable.]

## Group-A

(Multiple Choice Type Question)

1 x 15=15

- Choose the correct alternative from the following :
- (i) Identify major indication for IABP include all of these except
  - a) PTCA failure

- b) Medically refracting Angina
- c) Left main coronary artery basin
- d) Aortic paplillary muscle rupture
- (ii) Select the medication not typically used in the management of acute coronary syndromes.
  - a) Aspirin

b) Beta-blockers

c) ACE inhibitors

- d) Antibiotics
- (iii) Give examples of risk factors for IHD.
  - a) Regular exercise

b) High cholesterol levels

c) Consuming a balanced diet

- d) Smoking
- (iv) Summarize the surgical procedure which involves bypassing blocked coronary arteries.
  - a) PCI

b) Valvuloplasty

c) CABG

- d) Aneurysm repair
- (v) Indicate the most lethal arrhythmia post-MI leading to sudden cardiac death.
  - a) Atrial fibrillation

- b) Ventricular fibrillation
- c) Supraventricular tachycardia
- d) First-degree heart block
- (vi) Give examples of two major complications post-myocardial infarction
  - a) Valvular disease and cardiomyopathy
- b) Ventricular aneurysm and ventricular septal defect
- c) Myocarditis and endocarditis
- d) Hypertension and diabetes
- (vii) Name the artery involved in double vessel disease that makes CABG a potential treatment
  - a) Right coronary artery

- b) Circumflex artery
- c) Left anterior descending artery
- d) Pulmonary artery
- (viii) Give examples of two arteries that can be used for grafts in CABG:

(ix)	<ul><li>a) Aorta and pulmonary artery</li><li>c) Radial and internal mammary arteries</li><li>Select the best lifestyle change post-CABG:</li></ul>	<ul><li>b) Brachial and femoral arteries</li><li>d) Carotid and cerebral arteries</li></ul>	
	a) Smoking continuation c) Physical inactivity Select invasive procedure where a new valve is in	b) Regular exercise d) High-fat diet	
	a) Heart transplantation c) TAVR Identify the most appropriate incision in the eme penetrating cardiac injury is	b) Surgical valve replacement d) Balloon angioplasty	
(xii)	a) Left Thoracotomy c) Medium Sternotomy Identify most common complication following ca	b) Right Thoracotomy d) Subxiphoid incision diac surgery is	
	a) Bleeding c) Stroke ) Identify the condition which is not true for CPR	b) Infection d) Arrhythmia	
	a) Closed chest massage is an effective as open chest massage     c) Most common cause sudden death is	<ul><li>b) Success rate for out of hospital resuctions 30 to 60%</li><li>d) Standard chset massage generally presented and the standard chset massage generally generally</li></ul>	
1	ischemic heart disease	less than 15 % of normal coronary ar cerebral blood flow	
	<ul> <li>Choose the most common type of hiatal hernia</li> <li>a) Type I</li> <li>c) Type III</li> <li>lndicate which of these is not an indiaction for Ac</li> </ul>	b) Type II d) Type IV ortic valve replacement for Aortic stenosi	s
	a) Angina c) Congestive heart faiure	b) Syncope d) Transvascular gradiant of 35 mm of H without symptoms	
	<b>Grou</b> (Short Answer Ty	· ·	3 x 5=15
2. Tell What are the key considerations in pre-operative assessment and optimization for cardiovascular and thoracic surgical patients?			(3)
<ol> <li>Explain the role of early mobilization and respiratory therapy in preventing post-operative complications in cardiothoracic surgery patients.</li> </ol>			(3)
5. To 6. D	xplain the management of CABG patient ell What are common symptoms and signs associat biscuss the importance of hemodynamic monitoring ardiothoracic surgery patients. How does it impact	in the post-operative care of patient outcomes?	(3) (3)
D	OF escribe the principles of pain management in the p nd thoracic surgical patients. How can adequate pa	ost-operative period for cardio-vascular	(3)
	Grou		
	(Long Answer Ty	pe Questions)	5 x 6=30
7.	Analyze the key factors that contribute to the high cardiovascular and thoracic surgical patients during	mortality rates among critically ill	(5)

о.	each components of a cardiopulmonary bypass (CPB) circuit and describe the role	e of (5)
	each component in maintaining adequate perfusion and overgonation during cardiac current	/.
9.	Write in detail about the management of MDD TD	(5)
10	Explain the etiology and management of Infective endocarditis.	(5)
ΤT	. Classify Chest Wall tumors. Write in details about its management	(5)
12	. Explain the TNM staging and management of Non small cell lung carcinoma.	(5)
	OR	
	Explain the types, indication and complication of Diaphragmatic pacing.	(5)
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