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FINAL EXAM JUNE 2018 NATIONAL BOARD OF EXAMINATIONS

## CARDIOLOGY

PAPER-I

CARD/J/18/05/I

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Time:			
Max. N			
		nstructions:	
٠		pt all questions in order.	
•	Each question carries 10 marks.		
•	Read the question carefully and answer to the point neatly and legibly. Do not leave any blank pages between two answers.		
•		te the question number correctly for the answers.	
		er all the parts of a single question together.	
•		the answer to a question on a fresh page or leave adequate space betwee	n two answers.
•		table/diagrams/flowcharts wherever appropriate.	
		notes on:	
1.	a)	Development of aortic arches and its anomalies.	5+5
		Fallot's physiology.	
	,		
2.	,	Normal fetal circulation.	5+5
	b)	Perinatal changes in fetal circulation.	
0	- )		<b>F</b> · <b>F</b>
3.		Gross and microscopic pathology of rheumatic heart disease.	5+5
	D)	Congenital anomalies of mitral valve.	
4.	a)	Draw and label Lewis cardiac cycle with atrial, ventricular,	5+5
	α)	arterial pressure tracings, heart sounds and ECG.	0.0
	b)		
	,		
5.		Frank Starling's law of the heart. Number Needed to Treat Meta- Analysis Sample size calculation	2+4+4
		Meta- Analysis	
	C)	Sample size calculation	
6.	a)	Draw and label a normal coronary artery and atherosclerotic	2+4+4
0.	u)	artery	2.4.4
	b)	Effect of coronary balloon angioplasty, stenting and rotablation	
	- /	on atherosclerotic coronary artery.	
	C)	Coronary collateral circulation.	
7.	a)	Mechanisms of arrhythmogenesis.	3+3+4
	b)	Classification of anti-arrhythmic drugs.	
	C)	Principle and methods of cardiac defibrillation.	
8.	a)	Mechanism of contrast echocardiography with respect to cardiac	5+5
0.	a)	and extra-cardiac shunts and myocardial perfusion.	515
	b)	Hemodynamics of constrictive vs restrictive physiology.	
	/		
9.	a)	Applied anatomy and physiology of normal aorta.	5+5
	b)	Genetics of aortic diseases.	
4.0	,		<b>-</b>
10.	a)	Pathophysiology of pulmonary arterial hypertension in	5+5
	<b>b</b> )	congenital heart disease. Pharmacological management of pulmonary arterial	
	0)	hypertension.	
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