BACHELOR OF SCIENCE (CARDIOVASCULAR TECHNOLOGY) (CBCS - 2020 COURSE)

B. Sc. (Cardiovascular Technology) Sem - IV :SUMMER- 2022 SUBJECT : BASIC ECHOCARDIOGRAPHY (ECG)

y : Monday te : 25-07-202	2 S-23356-2022	Time: 10:00 AM-12:00 P Max. Marks: 20	
N. B. :			
1)	There are three sections as:		
	Section – A = Objective Type Questions	- 20 Marks.	
	Section – B = Long Answer Questions Section – C = Short Answer Questions	- 20 Marks. - 20 Marks.	
2)	Section A is given in SEPARATE sheet and		
,	This sheet should be completed with the first 20 minutes of starting of the		
	examination. This sheet with Section – A only	· · · · · · · · · · · · · · · · · · ·	
3)	Section – B has four long questions and ANY	TWO questions have to be	
4)	answered. Section – C has six long questions and ANY	FOUR questions have to be	
1)	answered.	TOOK questions have to be	
5)	You have to make √ such kind of mark in the	box of the appropriate answers.	
Seat No:	Total m	Total marks obtained:	
Signature on	Examiner: Signatur	re of Invigilator:	
MCQs:			
Q. 1	Choose correct echo features of marfan's synd	drome:	
a)	Mitral valve prolapse		
b)	Aortic valve disease		
c)	Aortic dissection		
d)	All of above		
Q. 2	Normal E:A ration is:		
a)			
b)	> 2		
c)	<u></u>		
d)	()		
Q. 3	Normal LV internal end systolic volume is:		
a)	$85 \pm 15 \text{ ml}$		
b)	30 to 45 %		
c)	55 to 60 %		
d)	$35 \pm 5 \text{ ml}$		
Q. 4	Choose incorrect cause of Tricuspid valve regl	kurgitation:	
a)	Tricuspid valve prolapse		
b)	Ebstein's anomaly		
c)	Flail tricuspid leaflet		
d)	Right ventricle dilatation		
,		P. T. C	

Q. 5		which is not echocardiographic feature of restrictive cardiomyopathy?			
	a)		Small LV cavity		
	b)		RV enlargement with small LV cavity		
	c)		Bi-atrial enlargement		
	d)	***************************************	Normal to depressed systolic function of LV		
Q. 6		Choose incorrect cause of LA dilatation:			
	a)	ŧ	Mitral Regurgitation		
	b)		LV failure		
	c)		Long standing Atrial fibrillation		
	d)		Mitral valve vegetation		
Q. 7		Anatomically which of the following valve is anteriorly placed?			
	a)	(2)	Tricuspid valve		
	b)	 	Bicuspid valve		
	c)	1	Aortic valve		
	d)		Pulmonary valve		
Q. 8		Least common valve involvement in rheumatic heart disease:			
	a)		Tricuspid valve		
	b)		Pulmonary valve		
	c)		Bicuspid valve		
	d)		Aortic valve		
Q. 9		Assessment of Mitral regurgitation by colour flow mapping. Choose correct sentence.			
	a)	ļ	Mild MR – LA area < 25 % filling		
	b)	F	Moderate MR – LA area > 50 % filling		
	c)		Severe MR – LA area > 80 % filling		
	d)		Severe MR – Jet area < 8 cm ²		
Q. 10		Choose correct answer:			
	a)	e de la composição de l	Continuous wave measures abnormal flow pattern and high velocities without upper limit:		
	b)	1	Continuous wave is useful to see gradient in LVOT.		
	c)	i _1	Continuous wave measures higher velocities with upper limit 200 m/s.		
	d)		Continuous wave measures high velocities in specific area without upper limit.		

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Day : Monda	•	Time: 10:00 AM-12:00 PM		
Date: 25-07- Date:	-2022 S-23356-2022	Max. Marks : 4-0		
N. B. :	There are three sections as: Section – A = Objective Type Questions Section – B = Long Answer Questions Section – C = Short Answer Questions	20 Marks. 20 Marks. 20 Marks.		
2)	1 ANN TWO	uestions have to be		
3)	Section – C has six long questions and ANY FOUR quanswered.			
4)	Answers to both the sections should be written in SAN	IE answer book.		
	SECTION – B			
	Long answer (Attempt ANY TWO)	(20)		
Q. 1	Define ventricular septal defect. Write its types with labe	Define ventricular septal defect. Write its types with labelled diagram.		
Q. 2	What is pulmonary thromboembolism? Write echocardiographic assessment of pulmonary thromboembolism.			
Q. 3	Define mitral valve stenosis. Write its causes, symptoms and treatment. Draw diagram of normal and stenotic mitral valve.			
	SECTION – C			
	Short answer (Attempt ANY FOUR)	(20)		
Q. 4	Echo assessment of normal IV systolic and diastolic func	tion.		
Q. 5	Echo features of mitral regurgitation. Write its causes and	l treatment.		
Q. 6	Define restrictive cardiomyopathy. Write echo features.			
Q. 7	Define HCM and HOCM. Write echo features.			
Q. 8	Define of congenital heart disease. Write its types. Define	any two types.		
Q.9	Write difference between continuous wave and pulsed wa	ve Doppler.		
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