Full Marks - 80

STATE MEDICAL FACULTY OF WEST BENGAL

Final Examinations for Diploma in Cath-Lab Technician : DCLT Course

Paper - I Radiology

Question No. 1 & 2 are Compulsory. Attempt any (Five) 5 Questions from Question No. 3 to 9

Time - 3 hours

5 X 1 = 5Q1 Choose the best answer for the following questions:i) Figure of Eight in chest X-ray seen in: a) TAPVC b) D-TGA c) ASD d) PDA ii) Right border of heart is formed by: a) RA b) SVC c) Both of the above d) None of the above iii) Best view to see course of LAD alter: a) LAO cranial b) LAO caudal c) RAO cranial d) RAO caudal iv) Bat wing appearance in chest X-ray seen: a) Pulmonary edema b) Pulmonary hypertension c) Pulmonary embolism d) Right heart failure v) Peripheral pruning of pulmonary artery in chest X-ray seen: a) Right heart failure b) Left heart failure c) Pulmonary hypertension d) Infective endocarditis Q2. Write True (T) or False (F):- $5 \times 1 = 5$ a) Echocardiography is helpful in diagnosis of constrictive pericardits. (T/F)b) CT coronary Angiography is used in patients with intermediate risk factor for CAD. (T/F) c) Cardiac MRI is not used for diagnosis of myocardial viability. (T/F)d) Echo Cardiography is useful in assessing valvular disease. (T/F)e) Cardiomegaly is seen in chronic aortic regurgitation. (T/F)

Paper - I

Radiology

ANSWER ANY FIVE (5) OF THE FOLLOWING QUESTIONS:

5 X 14 = 70

Q3.	Discuss Echocardiography features of mitral stenosis.	14
Q4.	Write short note on: a) Chest X-ray feature of ASD, VSD and PDA b) Chest X-ray of mitral stenosis	
		14
Q5.	Discuss indications, contraindications & complication of CT coro angiography.	nary
	ungiography.	14
Q6.	Discuss Echocardiography features of RA, LA, LV, RV.	14
Q7.	Write short note on: c) Chest X-ray feature of pulmonary embolism	
	d) Chest X-ray feature of Pulmonary hypertension	
		14
00	Discuss indications & contraindications of Cardiac MDI	1.1
Q8.	Discuss indications & contraindications of Cardiac MRI.	14
Q9.	Discuss in detail about assessment of myocardial viability.	
		14

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Paper - II <u>ECG</u>

Question No. 1 & 2 are compulsory. Attempt any (Five) 5 Questions from Question No. 3 to 9

Time - 3 hours Full Marks - 80 Q1 Choose the best answer from the following questions:-5 X 1 = 5i) Irregularly irregular RR interval seen in: a) VT b) Sinus tachycardia c) AF d) Sinus bradycardia ii) Extensive Anterior wall MI is diagnosed in lead: a) II, III, avf b) I, avL c) V1 to V6,I, avL d) V5, V6 iii) QT prolongation is seen in case of: a) Hypokalemia b) Hyperkalamia c) None of the above d) Both of the above iv) Complete Heart block is common in: a) Inferior wall MI b) Anterior wall MI c) Lateral wall MI d) NSTEMI v) Unstable angina - ECG findings: a) 'T' inversion b) ST depression c) Dynamic changes d) All of the above Q2. Write True (T) or False (F):- $5 \times 1 = 5$ a) 'P' Pulmonable suggest RA enlargement. (T/F) b) Sine wave pattern is seen hypokalemia. (T/F)c) QRS duration more than 200 msec's is called wide QRS. (T/F)d) Short QT syndrome where QTc is less than 320 msec. (T/F)e) Sokolow – Iyon voltage criteria is diagnostic criteria for RVH. (T/F)

Paper - II

ECG

ANSWER ANY FIVE (5) OF THE FOLLOWING QUESTIONS:

5 X 14 = 70

Q3.	Discuss the sequential ECG changes in AMI.	14
Q4.	Write short note on: a) Types of PSVT b) WPW syndrome	14
Q5.	Management of wide QRS tacchycardias in cath lab.	14
Q6.	Write short note on: a) ECG changes in RA & LA enlargement b) ECG changes of RVH	14
Q7.	Write short note on: c) ECG changes in unstable angina d) Corrected QT interval (QTC)	14
Q8.	Describe about waveforms & intervals of normal ECG.	14
Q9.	Describe how to differentiate from SVT with aberrance with VT.	14

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Paper – III <u>Defibrillation</u>

Question No. 1 & 2 are compulsory. Attempt any (FIVE) 5 Questions from Question No. 3 to 9

Time - 3 hours Full Marks - 80 Q1 Choose the best Answer for the following questions:-5 X 1 = 5i) AF is diagnosed with: a) Irregular RR interval b) Absent 'P' wave c) Both of the above d) None of the above ii) Defibrillation is required in all, except: a) VT with hemodynamic compromise b) AF with high ventricular rate c) VF d) Sinus tachycardia iii) Treatment of choice for torsades de pointes: a) IV magnesium b) Oral amoidarone c) IV amoidarone d) IV sotalol iv) Asynchronised DC shock is given in: a) VT b) Ventricular fibrillation c) AF d) AT v) Temporary pacing done in: a) CHB with syncope b) Sinus bradycardia c) Sinus Tacchycardia d) All of the above Q2. Write True (T) or False (F):- $5 \times 1 = 5$ a) CRT done ideally when LBBB with duration more than 140 msec's. (T/F)b) Injection Atropine is given in AV block during PCI. (T/F) c) Advanced CPR includes defibrillation in cases of ventricular fibrillation. (T/F)d) Rate control method of treatment is used in VT treatment. (T/F) e) ICD is implanted in DCM wit VT. (T/F)

Paper - III

Defibrillation

ANSWER ANY FIVE (5) OF THE FOLLOWING QUESTIONS:

5	X	<u>14</u>	=	7	0

		3 X 14 - 70
Q3.	Write short note on:- a) β blocker b) Amoidarone	14
Q4.	Write short note on:- a) ICD b) CRT	14
Q5.	Discuss steps of CPR & advanced CPR.	14
Q6.	Discuss etiology of VT & management of VT in cath lab.	14
Q7.	Write short note on:- a) Parts of defibrillator b) Complication of permanent pacing	14
Q8.	Describe types of AV block. Write treatment of the same.	14
Q9.	Write indications of permanent pacing. Write types of pacing. Write steps of dual chamber pacing.	permanent
		14

(T/F)

Contd.....P2/

STATE MEDICAL FACULTY OF WEST BENGAL

Final Examinations for Diploma in Cath-Lab Technician : DCLT Course

Paper - IV Diseases of Heart

Question No. 1 & 2 are Compulsory. Attempt any (FIVE) 5 Questions from Question No. 3 to 9

Time - 3 hours Full Marks - 80 5 X 1 = 5Q1 Choose the best Answer for the following questions:i) All of the following drugs used in Heart failure, except: a) Spironolactone b) Frusemide c) Remipril d) Amlodipine ii) Cyanosis is seen in all, except: a) TOF b) Tricuspid atresia c) d-TGA d) ASD iii) Moderator band is feature of: a) Right ventricle b) Left ventricle c) Right Atrium d) Left Atrium iv) Infective endocarditis id diagnosed by: a) Duke's criteria b) Jone's criteria c) Both of the above d) None of the above v) All are causes of Aortic Regurgitation, except: a) RHD b) IE c) Trauma d) Acute MI Q2. Write True (T) or False (F):- $5 \times 1 = 5$ a) Troponin T is positive in NSTEMI. (T/F)b) ASPIRIN is given in acute MI. (T/F)c) Most common cause of mitral stenosis is congenital MS. (T/F)d) Early diastolic murmur is heard in chronic Aortic Regurgitation. (T/F)

e) PTMC is done in severe mitral stenosis.

Paper - IV

Diseases of Heart

ANSWER ANY FIVE (5) OF THE FOLLOWING QUESTIONS:

5 X 14 = 70

Q3.	Discuss clinical features of management of Acute MI.	14
Q4.	Discuss etiology, clinical features and management of pulmor hypertension.	nary 14
Q5.	Discuss diagnosis and management of infective endocarditis.	14
Q6.	Discuss about ASD.	14
Q7.	Discuss clinical features, diagnosis and management of mitral stend	sis. 14
Q8.	Discuss etiology and management of pericardial effusion.	14
Q9.	Discuss clinical features and management of Heart failure.	14

Full Marks - 80

<u>Contd......P2/</u>

STATE MEDICAL FACULTY OF WEST BENGAL

Final Examinations for Diploma in Cath-Lab Technician : DCLT Course

Paper - V Catheters and Instruments

Question No. 1 & 2 are Compulsory. Attempt any (FIVE) 5 Questions from Question No. 3 to 9

Time – 3 hours

Q1	Choose tl	he best Answer for the following questions:-	5 X 1 = 5
i)	All of th	e following are antiplatelet, except:	
	a)	Aspirin	
	b)	Clopidogrel	
	c)	Ticagrelor	
	d)	Heparin	
ii)	Cathete	r used to engage RCA all, except:	
	a)	JR	
	b)	AL	
	c)	AR	
	d)	JL	
iii)	All of th	ese given intracoronary in slow flow phenomenon in PC	CI, except:
	a)	Adenosine	
	b)	Diltiazem	
	c)	GP2B3A	
	d)	Atropine	
iv)	All of th	e following have side hole, except:	
	a)	Tiger catheter	
	b)	Pigtail catheter	
	c)	JL	
	d)	None of the above	
v)	Rotablat	tor is used for:	
	a)	Thrombus containing lesion	
	b)	Diffuse lesion	
	c)	Focal lesion	
	d)	Highly calcified lesion	
02	Write Tr ı	ue (T) or False (F):-	5 x 1 = 5
ą a)		route has less vascular complications.	(T/F)
b)		vary balloon valvuloplasty is done for congenital MS.	(T/F)
c)		used in survivors of SCD.	(T/F)
d)		othorax is a complication in permanent pacing.	(T/F)
e)		view is to see for mid part of LAD.	(T/F)

Paper - V

Catheters and Instruments

ANSWER ANY FIVE (5) OF THE FOLLOWING QUESTIONS:

	<u>5 x</u>	14 = 70
Q3.	Discuss indications and contraindications of PCI	14
Q4.	Write short note on:-	14
	a) Peripheral angiographyb) Management of cardiac arrest in cath lab	
Q5.	Discuss comparison between BMS and DES.	14
Q6.	Write the steps of PTMS (Percutaneous transvenous commisurotomy) and complication of PTMC.	
		14
Q7.	Write short note on:-	14
	a) PDA device closureb) ASD device closure	
Q8.	Write short note on:-	14
	a) Pre PCI patient preparationb) Management of hemostasis in post PCI patient	
Q9.	Write steps in CRT procedure and complications during CRT.	14
