MCC-003

POST GRADUATE DIPLOMA IN CLINICAL CARDIOLOGY (PGDCC)

00384

Term-End Examination

June, 2012

MCC-003: COMMON CARDIOVASCULAR DISEASES - I

Time: 2 hours

Maximum Marks: 60

Note:

- (i) There will be multiple choice type of questions in this examination which are to be answered in **OMR Answer Sheet.**
- (ii) All questions are compulsory.
- (iii) Each question will have four options and only one of them is correct. Answers have to marked in figures in the appropriate rectangular boxes corresponding to what is the correct answer and then blacken the circle for the same number in that column by using HB or lead pencil and not by ball pen in OMR Answer Sheet.
- (iv) If any candidate marks more than one option it will be taken as the wrong answer and no marks will be awarded for this.
- (v) There will be 90 questions in this paper and each question carries equal marks.
- (vi) There will be no negative marking for wrong answers.
- (vii) No candidate shall leave the examination hall at least for one hour after the commencement of the examination.

1.	All the following statements regarding sphygmomanometer in recording B.P are correct except :												
	(1) (2)	width of the co	uff mu	ıst be 80% c	of the c	ircun	ove the antecubet nference of the ar	m					
	(3) (4)						han 80% of the circorded on supine		erence of the limb on				
2.	As p said	per JNC VII class to be reading :	ificatio	on Stage 2 hy	ypertei	nsion said to be present when the Blood Pressure							
	(1)	>140/90 mmH	Ig			(2) >160/90 mmHg							
	(3)	>160/100 mm	_		•	(4)	•						
3.	Whe	When do you say isolated systolic hypertension?											
	(1)	systolic >180 :	diasto	lic >90 mm]	Hg	(2)	systolic >160; d	iastoli	ic >90 mmHg				
	(3)	systolic 140 : d	iastoli	c <90 mmH	[g	(4)	•						
4.	Which is the commonest cause for secondary					y hyp	ertension ?		4				
	(1)	Cushing's synd	drome		(2)	Ren	al parenchymal d	lisease	9				
	(3) Pheochromocytoma (4)				(4)	Prin	nary aldosteronisi	m					
5.	In u	ntreated hypertoase?	ension	patients w	hat pe	ercent	age of patients d	lie wi	th coronary artery				
	(1)	15%	(2)	33%		(3)	50%	(4)	26%				
6.	In p	In pre-eclampsia all the following features are seen except :											
	(1)	proteinuria			(2)	B.P > 160/95 mmHg							
	(3)	seizures			(4)	pedal odema							
7.	Whi	ch of the followi	ng dru	ıg belongs t	o thiaz	ide g	roup of diuretics	?					
	(1)	Torsamide	(2)	Eplerenor	ne	(3)	Indapamide	(4)	Amiloride				
8.	Whic	ch of the followin	ng dru	ıg belongs t	o loop	diure	etics ?						
	(1)	Bumetanide	(2)	Triamtere	ene	(3)	Spironolactone	(4)	Chlorthalidone				
9.	Whi	ch of the followi	ng dru	ig has both	alpha	and b	eta blockers effec	t?					
	(1)	Bisoprolol	(2)	Acebutolo	ol	(3)	Carvedilol	(4)	Metaprolol				
10.	All t	All the following drugs can be safely given in pregnancy except?											
	(1)	Labetolol	(2)	Ramipril) V. 1	(3)	Methyldopa	(4)	Digoxin				

11.	Whi	ch of the condition causes heart fa	ilure v	with v	olume overload	?					
	(1)	mitral regurgitation	(2)	hyp	ertension						
	(3)	co-archtation of aorta	(4)	Aor	tic stenosis						
12.	Whi	ch of the condition causes heart fa	ilure v	with p	oressure overload	d ?					
	(1)	co-archtation of aorta	(2) aortic regurgitation								
	(3)	ventricular septal defect	(4)	pate	ent ductus arterio	osus					
13.	All	the following statements regarding	g Fran	k -Sta	rling mechanism	n are co	orrect except :				
	(1)	stroke volume is related to end-s	ystolic	volu	me						
	(2)	stroke volume is related to end-d									
	(3) mechanism accounts for increased inotropic state										
	(4)	4) increased preload helps in sustaining cardiac performance									
14.	Вус	lecreasing 1 kg of body weight ho	w muc	h blo	od pressure fall (on an a	average would be?				
	(1)	3.5 mmHg (2) 1.6 mmHg		(3)		(4)	5 mmHg				
15.	In p	atients with hypertension with diab	etes m	ellitus	s which of the ant	ihyper	tensive medications				
		first choice?				7.					
	(1)	Betablockers	(2)	ACI	ΕI						
	(3)	calcium channel blockers	(4)	diu	cetics						
16.	43 year old police a know hypertensive and diabetic admitted with chest pain of 1 day duration. ECG showed ST depression in V1 - V6. His heart rate is 96/mt. His blood pressure is 150/92 mm Hg. Cardiac enzymes are marginally elevated. Which antihypertensive medication is the first choice?										
	(1)	long acting nifedipine	(2)	Bisoprolol							
	(3)	Iv. Enalapril	(4)	IV s	odium Nitroprus	side					
17. 66 year old farmer admitted with shortness of breath at rest for the last 1 week. Hi is 88/mt. His blood pressure is 150/90 mmHg. His X-ray chest showed increased 0.65. His echo showed EF of 0.45, his blood urea was 38 mg/l, creatinine was Which is the preferred choice of antihypertensive medication for him?											
	(1)	Angiotensin receptor blocker	(2) (4)		nolol apamide						
	(3)	methyldopa	(4)	ma	apannae						
18.	The	commonest cause of right sided h	eart fa	ilure	is:						
	(1)	pulmonary embolism									
	(2)	COPD			·						
	(3)	secondary to left side heart failu	re	*			,				
	(4)	infective endocarditis									

19.	 All the following drugs can (1) angiotensin converting (2) angiotensin receptor B (3) diuretics (4) digoxin 	g enzyme inhibi		e except :							
20.	High cardiac output failure	is seen in all of t	the following con	dition exce	pt:						
	(1) Thyrotoxicosis	(2)	Beri beri		`						
	(3) Arterio-venous fistula	(4)	Hypertension								
21.	All of the following statemen	All of the following statements regarding digoxin are correct except:									
	(1) it acts via parasympathomimetic activation										
	(2) it inhibits NA, K. ATPa										
	(3) increase in the cytocyc										
	(4) it acts via activation of	sympathetic sys	stem								
22.	All the following drugs have	drug interactions	with digoxin pha	armacokinet	ics except :						
		amiodarone	(3) verapamil		Quinidine						
23.	Which is type III phosphodies	terase inhibitor ?	•								
	(1) sildenafil	(2)	Milrinone								
	(3) sodium nitoprusside	(4)	dobutamine								
24.	All the following statements regarding Hydralazine are correct except:										
	(1) it is potent venous dilator										
	(2) increases cardiac output										
	(3) tachycardia and hypoter		fects								
	(4) it can be combined with										
25.	In Framingham criteria for hea	art failure all the	following are incl	luded in ma	ion anitonia ovacant						
	(1) neck vein distension		ronowing are naci	laaca III IIIa	joi cilieria except .						
	(2) S3 gallop										
	(3) central venous pressure	e > 16 cm H.O									
	(4) pleural effusion										
26.	In pulmonary embolism all t	ne following find	dings are correct	except:							
	(1) Normal electrocardiogr		=	-							
	(2) S1 QT 3 changes are se										
	(3) Low PO ₂ , high CO ₂ is so			as analysis	of PF nationts						
	(4) Most common physical			uriary 515	or 1 is patients						
	, ,		r								

27.	Which of the following test has high sensitivity to detect pulmonary embolism?										
	(1)	Ventilation perfusion scan									
	(2)	D-dimer more than 500 microgra	ams								
	(3)	Magnetic Resonance Imaging									
	(4)	computed tomographic pulmona	ary an	giography							
28.	All	of the following pharmacologic ag	ents a	re direct thrombin inhibitors except?							
	(1)	Hirudin (2) Hirulog	(3)	Ximelagatran (4) warfarin							
29.	All t	-		treatment of venous thrombo embolism except?							
	(1)	-		ed in patients with symptomatic proximal DVT							
	(2)	,									
	(3)	DVT patients									
	(4)	3 months anticoagulation is recommended in patients with VTE associated risk in recent surgery									
30.	All	the following medications are used	l in pı	almonary edema except :							
	(1)	Furosemide intravenously	(2)	Inj. Pethidine							
	(3)	IV sodium nitroprusside	(4)	Digoxin							
31.	In h	In heart failure patients all the following measures are done except :									
	(1)	ultrafiltration	(2)	Fluid restriction							
	(3)	verapamil dose to be increased	(4)	discontinuation of NSAID drugs							
32.	Ang	Angiotension converting enzyme inhibitors cause all the following adverse effects except:									
	(1)	hypotension	(2)	hyponatremia							
	(3)	hyperkalemia	(4)	angioedema							
33.	All	All the following statements regarding spironolactone are correct except:									
	(1)	it reduces myocardial fibrosis									
	(2)	in RALES study spironolactone	showe	ed 26% reduction in mortality							
	(3)	it causes potassium loss in distal	tubul	es							
	(4)	it causes sodium loss in the dista	l tubu	les							
34.	Eple	erenone is specifically used in which	ch of t	he following condition ?							
	(1)	Hypertension	(2)	Heart failure							
	(3)	Pheochromocytoma	(4)	Renal failure							

35.	All the following statements regarding digitalis glycosides are correct except: (1) It reduces the heart rate via sympathetic effects (2) It inhibits the enzyme Na K at Atpase (3) It increases the cytocyclic Ca 2 concentration (4) Serum digoxin levels should be maintained between 0.7 to 1.2 mg/ml Which of the following drug is used for ventricular arryhthmias due to digoxin?										
36.	Wh (1)	ich of the following drug is used to Amiodarone (2) Phenytoi		ntricular arryhthmias due to digoxin ? (3) Propafenone (4) Quinidine							
37.	Am (1) (2) (3) (4)	rinone causes all the following eff venous dilatation arterial vaso constriction increase myocardial contractilit increase in cyclic GMP in vascu	y								
38.	Whi (1) (2) (3) (4)	increased preload helps in sustaining cardiac performance Frank - Starling law accounts for increased inotropic state and increased diastolic filling									
39.	Alveolar odema occurs when pulmonary venous pressure exceeds which one of the following pressure required?										
	(1)	> 25 mmHg	(2)	12 to 18 mmHg							
	(3)	18 - 20 mmHg	(4)	10 - 12 mmHg							
40.	All	the following conditions are absol	ute co	ntraindications for thrombolysis except one:							
	(1)	Prior intracranial hemorrhage	(2)	Ischaemic stroke within 3 months							
	(3)	Suspected aortic dissection	(4)	Active peptic ulcer							
41.	depi	rears male, diabetic, was admitt ression in L2, L3, a VF, V4 - V6, wi ated. All the following drugs are i	th Blo	th chest pain in CCU with ECG showing ST od pressure 160/100 mmHg and troponin I was mended except one:							
	(1)	Metaprolol	(2)	Nifedipine							
	(3)	Clopidogrel	(4)	low molecular weight heparin							
42.	All t	he following findings are seen in	the me	etabolic syndrome except one :							
	(1)	Increased HDL - C	(2)	Hyperinsulinemia							
	(3)	Hypertriglyceridemia	(4)	Glucose intolerance							

43 .	All	the following statements regarding dobutamine are correct except one:								
	(1)	It causes the release of norepinephrine								
	(2)	has more effective positive inotrope action than dopamine								
	(3)	plasma half life is < 2 minutes								
	(4)	It is a relatively weak beta agonist								
44.	All	the following measures are done in right ventricular myocardial infarction except one								
	(1)	Early thrombolysis								
	(2)	early use of nitrates								
	(3) (4)	maintain AV synchrony in case of high grade block Maintain Right ventricular preload								
45 .	In Hyperhomocyteinemia all the following statements are correct except one :									
	(1)	Homocystine is derived from methionine								
	(2)	Hyperhomocysteinemia causes increased release of nitric oxide from endothelial cells								
	(3)	Hyperhomocysteinemia is treated with folic acid, B6 and B12								
	(4)	Elevated plasma homocysteine levels > $15\mathrm{U/L}$ confer independent risk for vascular disease								
46.	Rapi	id control of blood pressure is not recommended in :								
	(1)	aortic dissection (2) gestational hypertension								
	(3)	acute left ventricular failure (4) cerebral infarct								
17.	The	following statements are regarding renovascular hypertension -								
	(I)	presence of abdominal bruit								
	(II)	fibroplastic disease is common in elderly								
	(III)	young individual without family history of hypertension								
	(IV)	may present as malignant hypertension								
	Whic	ch of the above are correct:								
	(1)	I, II, III (2) I, III, IV (3) II, III, IV (4) all of above								
18.	Whil	le recording blood pressure								
	(I)	Two consecutive recordings are done in atrial fibrillation								
	(II)	phase 5 Korotkoff sounds corresponds to diastolic blood pressure								
	(III)	clenching and unclenching the fist augments Korotkoff sounds								
	(IV)	normally more than 10 mmHg difference is observed between the two upper limbs								
		Which of the above statements are correct :								
	(1)	I, II, III (2) II, III (3) II, III, IV (4) III, IV								

Whi	ch of the follov	ving sta	tement is fals	se ?						
(1)	Diuretics and	ACE ir	hibitors are t	he first li	ne of drugs i	in gestation	al hypertension			
(2)	Decrease of 1	kg of b	ody weight is	associat	ed with an a	verage fall	of 1.6 mm of BP			
(3)	Daily consum	ption o	f more than c	ne ounce	of Ethanol i	increases bl	ood pressure			
(4)	Selectivity of	betabloo	kers is lost ir	high do	ses					
Whi	ch of the follov	ving sta	tement is co r	rect						
(1)				and ram	ipril can be	given intr	avenously in			
(2)	Hypertensive	urgenci	es require ra	pid reduc	ction of BP w	ithin one h	our			
(3)	Headache, irr	itability	and Seizures	denote	hypertensive	encephalo	pathy			
(4)	(4) Presence of retinal hemorrhage indicates malignant hypertension									
dysp wave was Ches	onoea on exerti e of 25 mm in \ 0.11 seconds ir st X ray showe	ion. EC0 /5 with 1 V5. Pro	G showed Sir ST depression ominent nega	nus rhyth n and T v tive term	nm with 'S' v vave inversio inal deflectio	wave of 20 on in V5 and on of 'P' wa	mm in V1 and 'R d V6. QRS duration we was seen in V1			
(I)	ECG shows le	eft venti	cular hyperto	phy and	left atrial en	largement				
						O				
(III)	(III) Left bundle branch block									
(IV)	Chest X ray fa	avours i	nterstitial ede	ema		, •				
(1)	I, II, III	(2)	I, II, IV	(3)	I, IV	(4)	all of above			
Which of the following statements regarding Angiotensin converting enzyme inhibitors i not correct?										
(1)	Reduce the af	terload	by periphera	l vasodila	atation					
(2)	cause down r	egulatio	n of sympath	etic nerv	ous system					
(3)	improve baro	recepto	or function		·					
(4)	•									
Which of the following statements are correct ?										
(I)	In pregnant w	omen,	BP should no	t be reco	rded in supir	ne posture				
(II)	-				_	•				
(III)			, Stage I hype	ertension	is systolic BP	of 140-159	and diastolic			
(IV)	Width of the	standar	d BP Cuff is	12.5cm						
(1)	I, II, III	(2)	II, III, IV	(3)	I, III	(4)	II, IV			
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	(1) (2) (3) (4) Which (1) (2) (3) (4) Which (1) (1) (1) (1) (1) (IV) (1) (IV) (1) (IV) (1) (IV) (1) (IV) (1)	 Diuretics and Decrease of 1 Daily consum Selectivity of Which of the follow Sodium nitro hypertensive Hypertensive Headache, irr Presence of red A hypertensive, or dyspnoea on exertiwave of 25 mm in Was 0.11 seconds in Chest X ray showed correct? ECG shows left Pulmonary version Pulmonary version Chest X ray for the follow of the follow of correct? Reduce the aff Reduce the aff cause down red more baro cause degrada Which of the follow In pregnant were degrada Which of the follow In pregnant were degrada Which of the follow According to BP of 90-99 medical Width of the 	(1) Diuretics and ACE in (2) Decrease of 1 kg of b (3) Daily consumption of (4) Selectivity of betablood Which of the following sta (1) Sodium nitroprussion hypertensive emergency (2) Hypertensive urgency (3) Headache, irritability (4) Presence of retinal head A hypertensive, on irregulation dyspnoea on exertion. ECC wave of 25 mm in V5 with was 0.11 seconds in V5. Prochest X ray showed Kerlectorrect? (I) ECG shows left ventian (II) Pulmonary venous proceed (III) Left bundle branch be (IV) Chest X ray favours in (1) I, II, III (2) Which of the following stands to correct? (1) Reduce the afterload (2) cause down regulation (3) improve baro receptor (4) cause degradation of (III) Muffling of Korotkoff (III) According to JNC VIII BP of 90-99 mmHg, (IV) Width of the standard (1) I, II, III (2)	(1) Diuretics and ACE inhibitors are to (2) Decrease of 1 kg of body weight is (3) Daily consumption of more than of (4) Selectivity of betablockers is lost in Which of the following statement is correct: (1) Sodium nitroprusside, labetalol hypertensive emergencies (2) Hypertensive urgencies require ray (3) Headache, irritability and Seizures (4) Presence of retinal hemorrhage in A hypertensive, on irregular medicating dyspnoea on exertion. ECG showed Sirwave of 25 mm in V5 with ST depression was 0.11 seconds in V5. Prominent negation Chest X ray showed Kerley B lines in correct? (I) ECG shows left venticular hyperto (II) Pulmonary venous pressure is 18 to (III) Left bundle branch block (IV) Chest X ray favours interstitial edge (1) I, II, III (2) I, II, IV Which of the following statements regain to correct? (1) Reduce the afterload by periphera (2) cause down regulation of sympath (3) improve baro receptor function (4) cause degradation of bradykinin Which of the following statements are consumed to the following statement to the following statement to the following statement to	(2) Decrease of 1 kg of body weight is associate (3) Daily consumption of more than one ounce (4) Selectivity of betablockers is lost in high dose. Which of the following statement is correct (1) Sodium nitroprusside, labetalol and ram hypertensive emergencies (2) Hypertensive urgencies require rapid reduct (3) Headache, irritability and Seizures denote (4) Presence of retinal hemorrhage indicates in A hypertensive, on irregular medication is addyspnoea on exertion. ECG showed Sinus rhythwave of 25 mm in V5 with ST depression and T v was 0.11 seconds in V5. Prominent negative term Chest X ray showed Kerley B lines in both base correct? (I) ECG shows left venticular hypertophy and (II) Pulmonary venous pressure is 18 to 25 mm (III) Left bundle branch block (IV) Chest X ray favours interstitial edema (1) I, II, III (2) I, II, IV (3) Which of the following statements regarding Arnot correct? (1) Reduce the afterload by peripheral vasodila (2) cause down regulation of sympathetic nerved (3) improve baro receptor function (4) cause degradation of bradykinin Which of the following statements are correct? (I) In pregnant women, BP should not be record (III) Muffling of Korotkoff sounds occurs in Pha (III) According to JNC VII, Stage I hypertension BP of 90-99 mmHg, (IV) Width of the standard BP Cuff is 12.5cm (1) I, II, III (2) II, III, IV (3)	 Diuretics and ACE inhibitors are the first line of drugs (2) Decrease of 1 kg of body weight is associated with an are (3) Daily consumption of more than one ounce of Ethanol (4) Selectivity of betablockers is lost in high doses Which of the following statement is correct Sodium nitroprusside, labetalol and ramipril can be hypertensive emergencies Hypertensive urgencies require rapid reduction of BP weight (3) Headache, irritability and Seizures denote hypertensive (4) Presence of retinal hemorrhage indicates malignant hypertensive, on irregular medication is admitted with dyspnoea on exertion. ECG showed Sinus rhythm with 'S' wave of 25 mm in V5 with ST depression and T wave inversion was 0.11 seconds in V5. Prominent negative terminal deflection Chest X ray showed Kerley B lines in both bases. Which of correct? ECG shows left venticular hypertophy and left atrial ending the lateral e	(1) Diuretics and ACE inhibitors are the first line of drugs in gestation (2) Decrease of 1 kg of body weight is associated with an average fall (3) Daily consumption of more than one ounce of Ethanol increases bl (4) Selectivity of betablockers is lost in high doses Which of the following statement is correct (1) Sodium nitroprusside, labetalol and ramipril can be given intripretensive emergencies (2) Hypertensive urgencies require rapid reduction of BP within one he (3) Headache, irritability and Seizures denote hypertensive encephalo (4) Presence of retinal hemorrhage indicates malignant hypertension A hypertensive, on irregular medication is admitted with a BP of 18 dyspnoea on exertion. ECG showed Sinus rhythm with 'S' wave of 20 wave of 25 mm in V5 with ST depression and T wave inversion in V5 and was 0.11 seconds in V5. Prominent negative terminal deflection of 'P' was was 0.11 seconds in V5. Prominent negative terminal deflection of 'P' was chest X ray showed Kerley B lines in both bases. Which of the follow correct? (I) ECG shows left venticular hypertophy and left atrial enlargement (II) Pulmonary venous pressure is 18 to 25 mmHg (III) Left bundle branch block (IV) Chest X ray favours interstitial edema (1) I, II, III (2) I, II, IV (3) I, IV (4) Which of the following statements regarding Angiotensin converting er not correct? (1) Reduce the afterload by peripheral vasodilatation (2) cause down regulation of sympathetic nervous system (3) improve baro receptor function (4) cause degradation of bradykinin Which of the following statements are correct? (I) In pregnant women, BP should not be recorded in supine posture (II) Muffling of Korotkoff sounds occurs in Phase 3 (III) According to JNC VII, Stage I hypertension is systolic BP of 140-159 BP of 90-99 mmHg, (IV) Width of the standard BP Cuff is 12.5cm (1) I, II, III (2) II, III, IV (3) I, III (4)			

	(1) (2)		ransient ischaemic attack (TIA) occurs due to intracranial atherosclerosis Iypertension induces microalbuminuria in late stages										
	(3)	Commonest abno	ormal					ypertensi	on is thoracic				
	(4)	Systolic BP is a sidiastolic BP	tronge	er and more	e consi	stent j	predictor of ca	ardiovascı	ılar risk than				
55.	Whic	ch of the followin	g stat	ements is c	orrect	?							
	(1)	Renovascular hy sweating, nervo		-		th spe	lls of nausea,	headache	, palpitation,				
	(2)	Preeclampsia de	notes	elevated b	lood p	ressur	e after 12 we	eks of ges	station				
	(3)	When diastolic l stroke increases		•	ncreas	es fro	m 91 mmHg	to 105 m	mHg, risk of				
	(4)	ACE inhibitors and thiazides reduce the frequency of recurrent strokes											
56.	Which of the following statements regarding heart failure is correct ?												
	(I)												
	(II)	Diuretics are use			Ŭ								
	(III)	A patient with c		-			stage of A of	heart failı	ıre				
	(IV)	Cardiac transpla		•			-						
	(1)	I, II, III	(2)	I, III	ac iune	(3)	II, IV	(4)	all of above				
57.	Yello (I)	itient on long terrow vision. The fol infective hepatit digitoxicity	lowin		ial diag (II)	gnosis cong	-	red. omegaly	orexia, nausea ar	d			
	Whic	ch of the above ar	e unl	ikely ?									
	(1)	І, ІІ, ПІ	(2)	I, II, IV		(3)	II, III, IV	(4)	all of above				
58.	Which of the following statements about Renin Angiotensin System is incorrect ? (I) Stimulation of Alpha 1 receptor in juxtaglomerular apparatus of kidney leads to renin release												
	(II)	Angiotensin II c	auses	cardiac my	yocyte	remo	delling						
	(III)	Systemic vasodil	latatio	n and rete	ntion o	of flui	d is caused by	y angioter	nsin II.				
	(IV)	Angiotensin cor aldosterone	verti	ng enzym	e acts	on ad	renal cortex	and caus	es release of				
	(1)	I, II, III	(2)	I, III, IV		(3)	II, III, IV	(4)	all of above				

54. Which of the following statement is **true**?

59.	A well compensated cardiac failure patient, on treatment, gets admitted with sudden worsening of symptoms. The following investigations were ordered.												
	(I) (III)	Electrocardio Serum calciu	graphy m	,	(II) (IV)	Tota	al and different and creatinin	ential leuco	ocyte count				
		ich of the above											
	(1)	I, II, III	(2)	I, II, IV		(3)	I, III, IV	(4)	all of above				
60.		reatment of pui			nechan	ical v	entilation,						
	(I)	elevates intra		-									
	(II)	decreases tran				veola	r capillaries						
	(III)	impedes veno											
	(IV)	elevation of p	ulmona	ıry capillary	pressi	ire o	ccurs						
	Whi	Which of the above statements are correct?											
	(1)	I, II, III	(2)	II, III, IV		(3)	I, III	(4)	all of above				
61.	Which of the following is incorrect in treatment of pulmonary edema?												
	(I)	Morphine ele											
	(II)	Morphine red											
	(III)	-		•	e rapid	diur	etics and incr	ease circuia	nting blood volume				
	(IV)	Frusemide exe	rts a vei	nodilator act	ion, red	duces	venous retu	rn and this	action occurs				
	,	much before o	diuresis	completed	,		· · · · · · · · · · · · · · · · · · ·	zit uita tilis	action occurs				
	(1)	I, III	(2)	I, IV		(3)	III, IV	(4)	I, III, IV				
62.	Whi	Which of the following is correct ?											
	(I)	reversible causes of heart failure include valvular lesions, myocardial ischaemia, uncontrolled hypertension, arrhythmias											
	(II)	Cardiomyopathy of hemochromatosis may be partially reversible and the progression may be slowed by treatment											
	(III)	Diastolic dysfu	unction	caused by p	ericaro	dial d	isease is not	reversible					
		LV hypertrop dysfunction							of diastolic				
	(1)	I, II	(2)	I, II, IV		(3)	I, II, III	(4)	all of above				
63.	Whic	ch is false abou	t diuret	ics ?									
	(I)	Continuous in resistance	ntraven	ous admini	istratic	on of	loop diuret	tics may o	vercome diuretic				
	(II)	when metalazo	one is a	dded to fru	semide	clini	cal improve	ment can o	CCUr				
	(III)	metalazone is	lipopho	lic				on the same of					
	(IV)	spironolactone			oluted	tubu	lle and incre	ases K+so	cretion				
	(1)	I, III	(2)	II, IV			III, IV		IV				

		•
64.	Whi	ch one is false?
	(1)	Sodium and water retension causes pulmonary congestion and edema in long term
	(2)	Sympathetic stimulation increases HR and stroke volume and decreases energy expenditure
	(3)	vasoconstriction increases BP but causes pump dysfunction by increase in after load in log term
	(4)	Hypertrophy helps to unload individual muscle fibres, but leads to cardiac cell death and cardiomyopathy of overload
65.	Whi	ch is incorrect regarding pathogenesis of paroxysmal nocturnal dyspnoea?
	(1)	increased resorption of fluid into vascular space on lying down
	(2)	elevation of diaphragm due to recumbency
	(3)	increased sympathetic drive during sleep
	(4)	noeturnal depression of respiratory center
66.	Whi	ch is true?
	(1)	Unilateral pleural effusion usually occurs in left side
	(2)	In constrictive pericarditis and severe TR, pedal oedema is more prominent than ascites
	(3)	cardiomegaly is always present in diastolic heart failure
	(4)	Pulses alternans tends to disapper with successful treatment of heart failure
67.	Rega	arding chest X ray findings in cardiac failure, which is correct?
	(1)	When pulmonary venous pressure is 12 - 18 mmHg, alveolar edema develops
	(2)	In pulmonary arterial hypertension, central and peripheral vessels become prominent
	(3)	Cephalisation denotes prominance of upper lobe veins
	(4)	Kerley B lines indicate alveolar edema
68.	Whi	ch of the following is not true in heart failure ?
		Increased compathetic activity regults in codium retention

- (1) Increased sympathetic activity results in sodium retention
- (2) Increased N terminal pro BNP is a reliable marker
- (3) Warm extremities with narrow pulse pressure occurs in high out failure
- (4) With RV failure, hepatomegaly, pedal edema and elevated JVP occur
- **69.** Which is unusual in cardiac tamponade?
 - (1) dyspnoea

(2) elevated JVP

(3) bradycardia

(4) pulsus paradoxus

- 70. In heart failure, which of the following statement is true?
 - (I) Weight loss in obese patients, will increase systemic vascular resistance and reduce myocardial O_2 consumption
 - (II) Cardiac rehabilitation and appropriate aerobic exercise, reduces functional capacity
 - (III) Very severe fluid restriction may lead to pre renal azotemia
 - (IV) Daily salt consumption of 5 6 gm is allowed
 - (1) I, II, III
- (2) II, III, IV
- (3) III, IV

(4) all of above

71.	Which of the following statements are correct about Lipoprotein?											
	(I)	is secreted by endothelium										
	(II)	is a modified VLDL										
	(III)) has structural homology with plasminogen										
	(IV)	(IV) serum concentration is inversely related to CHD risk										
•	(1)	I, III (2) II	I, IV		(3)	III	(4	4)	IV			
72.	Mr.A LDL	A. has waist circumference L of 124 mg% and triglyce	e of 100 c ride of 26	ms, fa	asting ;%. He	blood sug	ar of 130	mg%	6 HDL of 26	mg%		
	(1)	appendicular obesity		Ū								
	(2)	diabetic dyslipidemia										
	(3)	Friedrickson type IIb dyslipidemia										
	(4)	metabolic syndrome	•									
73.	Abs	Absolute contraindication for thrombolysis is:										
	(1)	abdominal surgery done		-								
	(2)	blood pressure of 170/1		0								
	(3)	history of hemorrhagic stroke 3 yrs ago										
	(4)	active menstrual bleedir	•	Ü		,						
74.	The following indicates successful thrombolysis except:											
	(1)	relief of chest pain		(2)	•	ast 50% res	olution of	ST	elevation			
	(3)	atrial fibrillation	V	(4)		lerated idio						
75.	Mrs. B, is a diabetic with the BP of 180/110 mmHg. Her Creatinine is 2.5mg%. Treadmill tes showed 2mm ST depression at 7 mets.											
	(1)	Target a blood pressure	reduction	n to 1	30/80	mmHg						
	(2)	Betablocker and Calcium	n channel	l blocl	kers a	re ideal dr	ugs					
	(3)	ACE inhibitors and ARE	to be us	ed wi	ith cau	ation	C					
	(4)	All of the above							^			
76.	Whi	ch of the following statem	ent is wi	rong 1	regard	ing acute (coronary s	synd	rome ?			
	(1)	more than half of deaths patient is hospitalised	followin	ng acu	ıte my	ocardial ir	nfarction o	occui	r before the			
	(2)	Fissuring and ulceration of	of atheros	clerot	ic plac	jue triggers	acute core	onar	v svndrome			

(3)

(4)

Platelet adhesion and aggregation have important role in pathogenesis

Modern management of acute myocardial infarction has eliminated nonfatal recurrence

77.	Ider	ntify the <mark>incorre</mark> c	ct state	ment.								
	(I)	Completely oc myocardial inf	cludin arction	g thrombus in n	a coro	nary artery cau	ses Noi	n ST el	evation			
	(II)	Stunning is a clischaemia of a	nronic ny cau	reversible LV d se	ysfunc	tion following re	eperfusi	on of tr	ansient			
	(III)	(III) Hibernation is an acute reversible LV dysfunction caused by ischaemia										
	(IV)					nt results from ve			delling			
	(1)	I, III	(2)	II, IV	(3)	I, II, III		(4)	п, пі			
	Que	stions 78-80 : pe	rtain t	o a single clini	cal situ	ıation -						
78.	years pulse The	years old post mess is admitted in one is 120/min and following diagno	emerge BP is stic po	ency room with 90/60 mm Hg, ssibilities were	diffict Respir conside	ulty in breathing atory rate 30/m ered :	of one	hour d	luration He			
	٠,	(I) acute myocardial infarction with cardiogenic shock										
	(II)											
	(III)			-	ock							
		acute dissection										
		ch of the above co	onditio	_								
	(1)	I, II		(2)		, III						
	(3)	I, III		(4)) All	of the above						
79.	(I) (II)	h among the foll Presence of S3 Elevated JVP Bronchial breat tenderness of ca	h sour	nd	s will t	e helpful in arri	ving at	a correc	ct diagnosis :			
	(V)	early diastolic n			mal ho	rder						
	(1)	I + III + IV	(2)	I + II + III	(3)		(4)	all of	the above			
80.	(I) (II) (III) (IV) (V)	ollowing investig Troponin and C LDH D - Dimer X ray chest bedside colour of h of the above in	CPK M	r echocardiogr	aphy	?						
		I + II + III	(2)	I + III + IV + V	_		(1)	A 11 -	f the share			
	(-)		(4)	T : XXX I: X V : T' V	(3)	I + III + V	(4)	Ali Ol	f the above			

81.	Whic (1) (2) (3) (4)	ch of the following statement is incorrect regarding coronary circulation? In a myocardial bridge, coronary artery is intramural Myocardium extracts high and relatively fixed amount of oxygen Intramyocardial resistance vessels are fully dilated at rest Changing oxygen needs of heart influence vascular resistance							
82.	Ident (1) (2) (3) (4)	tify the wrong statement. Dopamine stimulates the release of norepinephrine Dobutamine causes less chronotropic effects than Dopamine Epinephrine requires neuronal reuptake and hence ineffective in denervated transplanted heart Isopreterenol is predominantly chronotrope and causes no significant effect on blood pressure							
83.	(I) (II) (IV) (V) (VI) Whice (1)	V/Q scan is a better alternative to pulmonary angiography ch of the above are true?							
84.	(I) (II)	ch of the following statements are correct in management of pulmonary embolism Dopamine is better than dobutamine when RV dysfunction occurs in pulmonary embolism Dose of low molecular weight heparin to be adjusted to achieve a PTT of 1.5-2.5 times the control value Thrombolysis will be life saving in massive pulmonary embolism Patients with unprovoked venous thromboembolism require long term anticoagulation When RV dysfunction is present, thrombolysis can be deferred I, III, V (2) I, II, III (3) I, III, IV (4) III, IV, V							
85.	Whice (I) (II) (III) (IV) (V) (1)	ch of the followin Commonly seen Infant is irritable Deep slow breat Pulmonary eject Secondary to inf I, II, III	below 2 yes and cries with a with a contract the below 2 years.	ears of age incessantly significant so recomes largers	ubcos ouder	tal retraction	correct?	II, IV, V	

86.	A known asthmatic and diabetic of 10 years duration, is admitted with retrosternal chest pain of 2 hours duration. His admission ECG showed ST elevation of 2 mm in II, III, aVF, V3r. His pulse was 96/min. BP was 100/70 mmHg. JVP 7cm above sternal angle. Faint S3 was heard. Lungs were clear. The following therapeutic options are available. (I) Administration of Streptokinase of 15 Lakh Units (II) Isosorbide Dinitrate 5 mg 3 times a day orally (III) Enteric coated Aspirin 300 mg orally (IV) Clopidogrel 300 mg orally (V) Atenolol 25 mg bd orally (VI) Frusemide 20 mg orally Which of the above options have to be avoided? (1) I, II, III, IV (2) II, IV, V, VI (3) II, III, V, VI (4) III, IV, V, VI
87.	A patient presents with acute anterior wall myocardial infarction with chest pain duration of 2½ hours. He gives history of renal biopsy 3 days before. The cardiac catheterisation laboratory has an angiographic procedure going on which is likely to take another one hour. Which of the following statement is correct about management? (I) Reperfusion chances in this patient is equal with fibrinolysis well as primary PCI (II) Thrombolysis is contraindicated (III) Inview of the delay in door to balloon time, thrombolysis is the correct option (IV) primary PCI is the only option available (1) I, II, III, IV (2) I, II, III (3) I, II, IV
88.	 (3) I, II, IV (4) II, III, IV In acute myocardial infarction, (I) Complete heart block in inferior wall myocardial infarction carries better prognosis than in anterior wall myocardial infarction (II) Complete heart block in inferior wall myocardial infarction is due to infranodal lesion (III) Development of left bundle branch block indicates a high risk individual (IV) Compared to left anterior fascicular block, left posterior fascicular block indicates more extensive myocardial damage (V) Escape rhythm in complete heart block, complicating anterior wall myocardial infarction will have narrow QRS complex Identify the correct statements from the above: (1) I, II, III, IV (2) I, III, IV (3) II, III, V (4) II, III, IV, V
89.	Rupture of papillary muscle complicating acute myocardial infarction (I) Usually occurs 2-7 days after infarction (II) Acute pulmonary edema may be the presentation (III) Hollow systolic murmur is often faint or absent (IV) Anterolateral papillary muscle is commonly affected (V) Early surgical treatment improves prognosis Identify the correct statements from above (1) I, II, III, IV (2) I, II, V (3) II, III, IV (4) I, II, III, V

- **90.** Diet prescription to a patient who has survived myocardial infarction. Which of the following statements are **correct?**
 - (I) Cholesterol content should be less than 400 gms/day
 - (II) Transfatty acids are preferred
 - (III) MUFA and PUFA are preferred over saturated fatty acids
 - (IV) Protein content should be 1 gm/kg/day
 - (V) Vegetables and fruits are necessary
 - (1) I, II, III, IV
- (2) II, III, IV
- (3) I, II IV, V
- (4) III, IV, V

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