POST GRADUATE DIPLOMA IN CLINICAL CARDIOLOGY (PGDCC)

00094

Term-End Examination

June, 2016

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 <u>OMR Answer Sheet</u>.
- (ii) All questions are compulsory.
- (iii) Each question will have four options and only one of them is correct. Answers have to be 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 <u>OMR Answer Sheet</u>.
- (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) Erase completely any error or unintended marks.
- (vi) There will be 90 questions in this paper and each question carries equal marks.
- (vii) There will be no negative marking for wrong answers.
- (viii) No candidate shall leave the examination hall at least for one hour after the commencement of the *ramination*.

1.	Which of the following antihypertensive drugs can cause gout ?									
	(1)	ACE inhibitor				Calcium Channel Blocker				
	(3)	Beta Blocker			(4)	Thia	zide			
•	T 1	dura of choice for	evetor	nic hyperter	nsion i	in a pa	atient with benigr	1 hyper	rtrophy of prostate.	
2.	(1)	Thiazide	(2)	Amlodipir		(3)	Doxazosin	(4)	Metaprolol	
	(1)	THUZIUC	(-)	· ····································		()		. ,		
3.	Whi	ch of the followir	ng thro	ombolytic ag	gent a	dmin	istered as a single	e bol u s	s dose ?	
	(1)	Reteplase	(2)	Tenectepla		(3)	Streptokinase	(4)	Urokinase	
4.	Whi	ch creatine Kinas			elative			(4)	All of the above	
	(1)	СК ВВ	(2)	CK MM		(3)	СК МВ	(4)	All of the above	
_			Loval	for a diabat	ic nati	iont ·				
5.	1 ne (1)	optimal HBAIC <9	(2)	<8	ic pau	(3)	<6	(4)	<7	
	(1)		(4)							
6.	All	of the following	antihy	pertensive o	drugs	are u	seful for patients	in hea	art failure except :	
	(1)	ACE inhibitor			(2)	Beta	a Blocker			
	(3)	Diuretics			(4)	Cal	ci u m Channel Bl	ocker		
			. •1	11	4 .					
7.		azide diuretics co		ite to all exc		Нv	ponatraemia			
	(1) (2)	Hypouricemia Hypercalcemia			(2) (4)		percholesterolem	ia		
	(3)	Typercalcentia			(~))	r			
8.	In p	ore-eclampsia all	th e fo	llowing feat	tures a	are s e	en except :			
	(1)	Protinuria			(2)	· · · ·				
	(3)	B.P. > 160/95	mmH	g	(4)	Sei	zures			
			_		. 1	1.				
9.		ich of the follow:	ing dr	ugs belongs			irencs ?			
	(1)	Bumetanide Chlorthalidon	٥		(2) (4)	*	amterine			
	(3)	Chiormanuon			(*)					
10.	The	e target B.P. in di	abetes	s mellitus pa	atient	is :				
	(1)	<110/80 mmI		-	(2)		40/90 mmHg			
	(3)	<120/80 mmł	Hg		(4)	<1	30/80 mmHg			

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11. Which is the commonest cause of right sided heart failure ?

- (1) COPD (2) Pulmonary embolism
- (3) Infective endocarditis (4) Secondary to left sided heart failure
- **12.** Nitroglycerine is indicated in all the following conditions except one :
 - (1) Bradycardia <50/min (2) Ongoing chest discomfort
 - (3) Control of hypertension (4) Management of pulmonary congestion

13. Trepopnoea refers to :

- (1) Orthopnea due to bronchial asthma
- (2) Dyspnoea while sleeping
- (3) Dyspnoea on sitting up
- (4) Dyspnoea in one lateral decubitus position

14. ECG features of pulmonary thromboembolism are all the following except :

- (1) RBBB
- (2) $S_1Q_3T_3$ Pattern
- (3) Ventricular arrhythenias
- (4) ST-T changes in anterior and inferior leads
- 15. Framingham criteria for diagnosis of heart failure includes all the following except :
 - (1) Central venons pressure > 16 cm H_2O
 - (2) Circulation time < 25 sec
 - (3) PND
 - (4) Acute pulmonary oedema
- **16.** Drugs used in Hypertensive crisis include all of the following except :
 - (1) Fendolopam (2) Frusemide (3) Phentolamine (4) Ketamine
- 17. Pulsus paradoxus is characteristic feature of :
 - (1) Hypertensive encephalopathy
 - (2) Acute pulmonary embolism
 - (3) Acute LVF
 - (4) Cardiac tamponade

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18.	 All are true about Acute MI except : (1) Most Common in the evening around midnight (2) Commonest cause of death in the first hour is VF (3) Pain is the most common complaint (4) Triggered by physical exercise, emotion 								
19.	BP le	vels of 140/90 mr	nHg	can be class	ified a	as :			
	(1)	Stage I HTN			(2)	Stage	e II HTN		
	(3)	Pre-Hypertension	n		(4)	Isola	ted systolic HTN		
20.	All a	are risk factors for CAD except :							
	(1)	Age			(2)		ntary lifestyle		
	(3)	Tobacco Consum	nption	n	(4)	Marfanoid habitus			
21.	Sym	ptoms of SOB ever	n at r	est suggests	NYE	IA cla	SS :		
	(1)	Class IV	(2)	Class III		(3)	Class I	(4)	Class II
22.	Whio (a) (c) (1)	ch of the following Nitroglycerine Morphine (a) + (b)		gs cause dil (c) + (d)	ation (b) (d)	Frus Sodi	lmonary vein ? emide um Nitrotrusside (a) + (b) + (c)		(a) + (d)
23.	The	earliest enzyme to	o rise	in plasma a	fter a	cute N	/II is :		
	(1)	СКМВ	(2)	Myoglobii		(3)	Tropohin I	(4)	Tropohin T
24.	All a	are absolute contra	aindi	cation for th	romb	olysis	in Acute MI exce	ept :	
	(1)	In a prior intrac	rania	l bleed.	(2)		emic Stroke three	e mon	ths.
	(3)	Presence of intra	acran	ial tumours	. (4)	Acti	ve peptic ulcer.		
25.	Ade	nosine IV is usual	ly in	dicated in :					~~~~
	(1)	AF	(2)	VT		(3)	Atrial flutter	(4)	SVT
26.	All (1) (2) (3) (4)	are features of act Bat's wing eden Pulsus paradox Pinky frothy sp Crepitations ove	na in us utum	chest X-Ray		a exce	pt :		

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- 27. Following statements about cyanotic spells are true except :
 - (1) Commonly seen below 2 years.
 - (2) Murmur becomes loud.
 - (3) Tachypnea is present.
 - (4) Cyanosis deepens as spell progresses.

28. Following are side effects of HMGCOA reductase inhibitors except :

- (1) Neurological Symptoms.
- (2) Liver function test abnormalities.
- (3) Myopathy.
- (4) Hypothyroidism.

29. On chest X-Ray, alveolar edema suggests pulmonary venous pressure is likely to be :

- (1) 12 18 mmHg (2) $\ge 35 \text{ mmHg}$
- (3) 25 34 mmHg (4) 19 24 mmHg

30. Following drugs may be used in gestational hypertension except :

- (1) ACE inhibitors (2) Hydralazine
- (3) Methyldopa (4) Beta blockers

31. As per JNC VII classification of Blood Pressure, normal B.P. is :

- (1) < 120/80 mmHg (2) < 130/80 mmHg
- (3) < 130/90 mmHg. (4) 120/80 mmHg
- **32.** 37 years old patient previous Myocardial infarction and LVEF 50%, who has never shown signs and symptoms of heart failure earlier will be classified in which stage of heart failure as per ACC/AHA guidelines.
 - (1) Stage A (2) Stage B (3) Stage C (4) Stage D

33. Which of the following drug belongs to thiazide group of diuretics ?

- (1) Amloride (2) Torsemide (3) Eplerenone (4) Indapamide
- 34. Which of the condition causes heart failure with volume overload ?
 - (1) Aortic stenosis (2) Hypertension
 - (3) Co-arctation of aorta (4) Mitral regurgitation

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35.	. In patients with hypertension with diabetes mellitus which of the anti hypertensive medications are first choice ?								
	(1)	Calcium chann	el blo	cker	(2)	ACI	ΞI		
	(3)	Diuretics			(4)		blockers		
•									
36.		of the following]			ents a	except :			
	(1)	Hirudin	(2)	Hirulog		(3)	Warfarin	(4)	Ximelagatran
37.	Whi	ich of the followin	ng dru	ig is used fo	r ven	tricula	ar arrhythmias d	lue to d	ligoxin ?
	(1)	Amiodarone	(2)	Phenytoin		(3)	Quinidine	(4)	Propafenone
38.	All	the following mea	asures	are done ir	ı righ	t vent	ricular myocard	ial infa	rction except one :
	(1)	Early thromboly	ysis						
	(2)	Early use of nit	rates						
	(3)	Maintain AV sy	nchro	ny in case o	of hig	h grac	le block		
	(4)	Maintain Right	ventr	icular preloa	ad				
39.	Con	nmonest cause of	secon	dary hypert	ensio	n is be	ecause of :		
	(1)	Coarctation of	aorta.		(2)	Phe	ochromocytoma		
	(3)	Cushing's synd	rome.		(4)	Rena	al parenchyma o	disease.	
40.	Folld	owing are feature	s of C	ushing's syr	ndron	ne exc	ent :		
	(1)	Rough Skin	(2)	Round Fac		(3)	Truncal Obesi	ty (4)	Loss of Weight
41.		ium Channel Blo	ckers	can cause al		-	10.1		
	(1)	Hyponatremia	-11-				al Oedema		
	(3)	Gingival hyperp	biasia		(4)	Con	stipation		
42.	Follo	owing are some o	f the s	ide effects c	of AC	E-inhi	bitors except :		
	(1)	Pedal oedema			(2)	Нур	erkalemia		
	(3)	Angioneurotic o	bedem	а	(4)	Rena	l agenesis in foe	etus	
43.	Incre follo	eased BNP (B - ty wing :	vpe N	atriuretic pe	eptide	e) con	centrations are 1	nost co	ommonly found in
	(1)	Obesity			(2)	Myo	cardial infarctio	n	
	(3)	Septic Shock			(4)	Hear	t Failure		

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- **44.** In the management of acute pulmonary oedema because of left ventricular failure, following are recommended except :
 - (1) IV Metaprolol (2) IV Morphine
 - (3) IV Furosemide (4) 100 percent oxygen

45. Aggressive lipid lowering drug treatment of persons at various risk levels reduces CAD morbidity and mortality, following are some of the primary prevention trials except :

- (1) The west of Scotland coronary prevention study.
- (2) The Air force/Texas coronary atherosclerosis prevention study.
- (3) The Heart prevention study.
- (4) The Scandinavian Simvastatin Survival Study.

46. As per JNC VII classification stage 2 Hypertension systolic B.P. is :

(1) >160 mmHg (2) >140 mmHg (3) >120 mmHg (4) >130 mmHg

- **47.** White coat hypertension systolic blood pressure can go up to :
 - (1) 27 37 mmHg (2) 17 27 mmHg (3) 7 17 mmHg (4) 0 7 mmHg

48. Commonest cause of secondary hypertension :

- (1) Ischemic heart disease (2) COPD
- (3) Renal parenchymal disease (4) Cirrhosis of liver

49. In pregnancy hypertension associated with proteinuria and oedema it is called as :

- (1) Eclampsia (2) Pre eclampsia
- (3) Cushing's syndrome (4) TIA

50. Hypertensive patients Echo cardiography shows :

- Increase in thickness of LV (2) Decrease in thickness of LV
- (3) No change in LV thickness (4) None of the above

51. In hypertensive patients purpose of examining abdomen are following except :

- (1) Abnormal Kidney masses (2) Polycystic Kidneys
- (3) Abdominal aortic aneurysm (4) Crohn's disease

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(1)

- **52.** Keith Wagner classification Grade 2 :
 - (1) Narrowing of arteries giving rise to copper wire appearance.
 - (2) Narrowing of arteries giving rise to copper wire appearance, arteriovenous nipping where the arteries cross the veins.
 - (3) Narrowing of arteries, copper wire appearance, arteriovenous nipping, superficial flame shaped and deep dot like haemorrhages and cotton wool exudates.
 - (4) In addition to all the above, papilloedema.

53. Normal Blood Pressure is :

- (1) SBP > 160 DBP > 100
- (2) SBP 120 139 DBP 80 89
- (3) SBP < 120 DBOP < 80
- (4) SBP 140 159 DBP 90 99
- 54. Instrument used to record B.P. is :
 - (1) Thermometer (2) Glucometer
 - (3) Sphygmomanometer (4) Otoscope
- 55. What is the commonest abnormality related to hypertension in the aorta?
 - (1) Abdominal aneurysm (2) Polycystic Kidney
 - (3) Spleenic aneurysm (4) Cholecystitis

56. Target B.P. in Patients with Diabetes or renal disease is :
(1) 120/80
(2) 140/90
(3) 130/80
(4) 140/80

57. Non-pharmacological management for Hypertension are all the following except :

- (1) Lowering excess body weight
- (2) Restriction of dietary sodium
- (3) Cessation of smoking
- (4) Amlodepin
- 58. Loop diuretics are all the following except :
 - (1) Bumetanide (2) Furosemide (3) Torsemide (4) Indapamide
- 59. In patients with hypertension and stable angina the drug of choice :
 - (1) Beta blocker (2) ARBS (3) CCB (4) Diuretics

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60.	Which is the cardinal symptom of left ventricular failure ?										
	(1)	Chest Pain (2) D	yspnoea	(3)	Fatigue	(4)	Haemoptysis				
61.	Nai	ne one condition that can i	mpose a pres	sure o	verload on the	e heart :					
	(1)	Hypertension	(2)	Aor	tic regurgitatio	on					
,	(3)	Mitral regurgitation	(4)	Ven	tricular septal	defect					
62.	In ł	neart failure patient liver is	enlarged and	tende	r and pulsatile	e in the p	resence of severe :				
	(1)	Mitral regurgitation	(2)	Tricuspid regurgitation							
	(3)	Aortic regurgitation	(4)	Pulr	nonary regurg	itation					
63.	When the pulmonary venous pressure exceeds 25 mmHg, alveolar oedema occurs the condition called as :										
	(1)	Acute pulmonary oedem	a (2)	Myocardial infarction							
	(3)	Pulmonary embolism	(4)	Aortic dissection							
64.	Framingham major criteria for diagnosing heart failure are all the following except :										
	(1)	Paroxysmal nocturnal dy	vspnoea (2)	Rale	S						
	(3)	S3 gallop	(4)	Noc	turnal cough						
65.	In pulmonary oedema adventitious sounds are :										
	(1)										
	(2)										
	(3)	Crepitations alone									
	(4)	Rhonchi alone					•				
66.	In management of acute pulmonary oedema patient should be in following position :										
	(1)	Propped up position	(2)	Pron	e position						
	(3)	Supine position	(4)	Left	lateral position	n					
67.	Side	Side effects of potassium sparing diuretics are all the following except :									
	(1)	Hypokalemia	(2)	Hyperkalemia							
	(3)	Renal dysfunction	(4)	Gyna	aecomastia						
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							1.1.0.				

- 68. In heart failure patients following drugs have shown to reduce mortality except :
 - (1) Calcium channel blockers
 - (2) Beta blockers
 - (3) Aldosterone antagonist
 - (4) Angiotensin Converting Enzyme Inhibitors (ACEI)
- 69. Contraindications for beta blockers are all the following except :
 - (1) Advanced heart block (2) Reversible airways obstructive disease
 - (3) Episodic decompensation (4) Myocardial infarction
- 70. Functional murmurs can occur in heart failure are :
 - (1) Functional mitral regurgitation and tricuspid regurgitation murmurs can appear with ventricular dilatation
 - (2) Aortic regurgitation and pulmonary regurgitation and pulmonary regurgitational murmurs
 - (3) Mitral stenosis and aortic stenosis murmurs
 - (4) Austin Flint murmurs
- 71. What are the auscultatory signs over the chest in acute pulmonary oedema ?
 - (1) Auscultation reveals crepitations and occasionally rhonchi
 - (2) Pericardial Knock
 - (3) Mid-diastolic murmur
 - (4) Pericardial rub
- 72. What are the features of acute pulmonary oedema on the chest X-Ray ?
 - (1) Butterfly or bat wing appearance
 - (2) Wedge shaped hypoperfused shadows
 - (3) Honey comb appearance
 - (4) Cannon ball appearance

73. Phosphodiesterase inhibitors side effect is :

- (1) Leucocytosis (2) Anaemia
- (3) Thrombocytopenia (4) Leucocytopenia
- 74. What is the percentage of 1 year survival rate after cardiac transplantation ?
 - (1) 10 20% (2) 30 40% (3) 60 70% (4) 80 90%

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75. Roughly how many percentage untreated hypertensives die of heart problems ?												
	(1)	10%	(2)	20%		(3)	50%	(4)	80%			
76.	Whi	ch diuretics h	ave been .	accepted as	s the p	rimary	foundation	of anti hyp	ertensive	therapy ?		
	(1)	Loop diuret	tics		(2)	Pota	issium spari	ng diuretic	s			
	(3)	Thiazide di	uretics		(4)	Ald	osterone rec	eptor block	er			
77.		ents with he dition ?	art failur	e are at a	ı highe	ner risk of developing which of the follow						
	(1)	Tender Live	er		(2)	Myo	ocarditis					
	(3)	Pericardial	effusion		(4)	Mal	aria					
78.	Atri	al Natritretic	Peptide (A	ANP) is sto	ored in	:						
	(1)	Mainly in K	lidneys		(2)	Mainly in Atrium						
	(3)	Mainly in B	rain		(4)	Mai	nly in Liver					
<i>79</i> .	The commonest cause of right sided heart failure is :											
	(1)	Right sided	failure		(2)	Left sided failure						
	(3)	Both sided			(4)	Nor	e of the abo	ve				
80.	Paroxysmal Nocturnal dyspnoea means :											
	(1)	Here the pa	tient befor	re going to	sleep f	or so	ne ti me , sud	denly gets	up with c	hest pain.		
	(2)	(2) Here the patient, after going to sleep for some time, suddenly gets up with dyspnea and suffocation and sits upright gasping for breath.										
	(3)	Night swea	ting									
	(4)	Nocturnal a	ingina									
81.	In d	In diastolic dysfunction echocardiology generally has :										
	(1)	Right ventricular hypertrophy				Left ventricular hypertrophy						
	(3)	Right atrial	enlargem	ent	(4)	Left	atrial enlarg	gement				
82.	Large randomized trials with beta blockers in heart failure patients have shown morality reduction to the tune of :											
	(1)	75%	(2)	50%		(3)	90%	(4)	35%			
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83.	Currently available only orally active positive inotropic agent is :									
	(1)	Dopamine	(2)	Dobutami	ne	(3)	Amrinone	(4)	Digitalis	
84.	In di	igitalis toxicity fol	llowir	0 0			-			
	(1)	Quinidine	(2)	Amiodarc	ne	(3)	Propafenone	(4)	Lidocaine	
85.	Calc	Calcium channel blockers are not recommended for the treatment of CHF because :								
	(1)	Positive inotrop			(2)		ative inotropic e			
	(3)	All the above			(4)	-	e of the above			
	. ,									
86.	Patie	ents with advance	ed str	uctural hea	rt dis	ease a	nd marked sym	ptoms	of Heart failure at	
		despite maximal r ch stage in Heart			nd wh	o requ	tire specialized in	nterver	tions. This belongs	
	(1)	Stage A	(2)			(3)	Stage C	(4)	Stage D	
	(-)		()	0		~ /	0	()	0	
87.	MD	CT Coronary calc	ium S	coring show	ws Co	ronar	y calcification w	hich is	earliest sign of :	
	(1)	Pulmonary emb	olism	i.	(2)	Coronary artery disease				
	(3)	Pleural effusion	L		(4)	Myocarditis				
	F 1									
88.		ated jugular venc	-	essure refle				_		
	(1)	Left atrial press			(2)	-				
	(3)	Right ventricula	ar pre	ssure	(4)	Left				
89.	Bv e	chocardiography	Seve	re Mitral Ste	enosis	mear	s MVOA by pla	nimetr	y is :	
• • •	(1)	< 2 cm	(2)	> 2 cm		(3)	< 1.5 cm ²	(4)	•	
	()					. ,				
90.	Hyp	okalemia which	wave	can be seen	in El	KG :				
	(1)	T Wave	(2)	P Wave		(3)	U Wave	(4)	Q Wave	