MCC-004

# POST GRADUATE DIPLOMA IN CLINICAL CARDIOLOGY (PGDCC)

00235

## Term-End Examination

## June, 2011

## MCC-004: COMMON CARDIOVASCULAR DISEASES - II

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 Sheets.
- (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 OMR Answer Sheets.
- (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 examination.

MCC-004 1 P.T.O.

1.	Group A streptococcal throat infection leads to Acute Rheumatic Fever in:											
	(1)	6 - 10%	(2)	0.3 - 3%		(3)	30 - 40%	(4)	> 90%			
2.	High ASO titre indicates :											
	(1) Recent Streptococcal (Gp.A) infection											
	(2) Acute Rheumatic fever											
	(3)	) Rheumatic heart disease										
	(4)	Infective End	docarditis	S								
3.	Card	y-combs murr	nur is a	:								
	(1)	Mid-diastoli	c murmu	11.	(2)	2) Early diastolic murmur						
	(3)	Pan+systolic	murmur		(4)	Ejec	tion systolic m	nurmur				
4.	Veg	etation in Infec	tive End	locarditis c	onsists	of:						
	(1) fibrous tissue and new vessels											
	(2)	fat ladden pl	aque wit	th blood clo	ot							
	(3)	(3) connective tissue (collagen tissue)										
	(4)	mass of plate	elet, fibri	n, inflamm	atory o	cell ar	nd microorgan	ism				
5.	Common organism for I.E. in IV drug abusers :											
	(1)	Streptococcu	s viridar	าร	(2)	Saln	nonella typhi					
	(3)	Candida			(4)	Stap	phylococcus au	areus				
6.	Following prosthetic valve surgery, LE. is :											
	(1)	more with n		*								
	(2)	more with bi		•								
	(3)	equal with n	•		rosthe	sis						
	(4)	not increased		•								
7.	Cha	racteristics of (	Osler's n	node :								
	(1)	Painless nod			surfac	es						
	(2)	Skin moves f	reely ove	er Osler's n	ode ar	nd noi	n tender					
	(3)	Pathognomo	-									
	(4)	Small tender			es in p	oulp o	f the digits					
8.	Dete	ection of veget	ation in l	Native Valv	ze End	ocard.	itis is :					
	(1)	equal sensiti				**						
	(2)	sensitivity is	•									
	(3)	sensitivity is										
	(4)	sensitivity is			E and f	FFE						
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9.	Commonest type of anaemia in I.E. is:										
	(1)	Normochromic normo	ocytic (2)	Microcytic hypoch	romic						
	(3)	Macrocytic	(4)	Normocytic hypoc	hromic						
10.	Whi	ich is not correct in maki	ng decision for	surgery in I.E. ?							
	(1)	persistent fever	(2)	abscess formation							
	(3)	prosthetic valve dehise	cence (4)	obstructive vegetat	ion						
11.	Clin	ical splenomegaly prese	nt in I.E. in :								
	(1)	70% patient	(2)	10% patient							
	(3)	30% patient	(4)	Every patient with	I.E.						
12.	Whi	ich statement is most ap	propriate in terr	ns of myocotic aneur	ysm ?						
	(1)	it is the result of funga	l I.E.	•							
	(2)										
	(3) embolization of arteries leads to myocotic aneurysm										
	(4)	(4) result from dilatation of weak arteries									
13.	Commonest valve involved in IV. drug abusers' I.E. is :										
	(1)	Aortic valve	(2)	Tricuspid valve							
	(3)	Mitral valve	(4)	Pulmonary valve							
14.	Cha	nces of positive blood c	ulture in I.E. pat	ients without prior a	ntibiotic	s:					
	(1)	95–100% (2)	70%	(3) 50%	(4)	25%					
15.	Con	iduction defect on ECG i	n a patie <mark>n</mark> t with	I.E. — most likely ca	ause is :						
	(1)	CHF	(2)	Healing of vegetati	ion and	infected area					
	(3)	abscess formation	(4)	constant bacteraen	nia						
16.	Cha	nces of I.E. is highest in	which of the fol	llowing lesion :							
	(1)	Prosthetic valve (2)	VSD	(3) TOF	(4)	ASD					
17.	Nor	emal mitral valve orifice :	in an adult is :								
	(1)	$4 \text{ cm}^2$ (2)	$2 \text{ cm}^2$	(3) $6 \text{ cm}^2$	(4)	$1.5 \text{ cm}^2$					
18.	Seve	erity of mitral stenosis is	assessed most a	ppropriately by :							
	(1)	Loudness of S <sub>1</sub>	(2)	Loudness of murm	ıur						
	(3)	Presence of diastolic th	nrill (4)	Short A <sub>2</sub> -OS interv	val						
MC	C-004	1	2			рт					

19.	<b>19.</b> Common ECG findings in severe MS —										
	(1) Left atrial enlargement and Rt axis deviation										
	(2) Left atrial enlargement and Lt ventricular hypertrophy										
	(3)	Left axis deviat	ion an	d RVH							
	(4)	Rt atrial enlarge	ement	and QRS a	axis >	130°					
20.	MS i	n adult is conside	ered se	evere if M.	V. opei	ning is	:				
	(1)	$1.5 - 2.0 \text{ cm}^2$	(2)	1.3 - 1.5	cm <sup>2</sup>	(3)	1.1 - 1.3  cm	$m^2$ (4)	$1 \text{ or } \le 1 \text{ cm}^2$		
21.	Diag	nostic clinical fea	ature c	of MS is:							
	(1)	Loud S <sub>1</sub>			(2)	Mid-	diastolic mu	rmur			
	(3)	Opening snap			(4)	Tricu	spid Regurgi	itation			
22.	Best	investigation for	diagn	osis of M.S	S. is :						
	(1)	Cardiac cathete	erizati	on	(2)	Echo	cardiography	y			
	(3)	ECG			(4)	CT s	can				
23.	Trea	tment of choice i	n MS	with signif	icantly	fibros	ed valve is :				
	(1)	MVR	(2)	PTMC		(3)	CMV	(4)	Medical therapy		
24.	Com	nmonest cause of	MR ir	our count	try is :						
	(1)	MVP			(2)	Colla	igen vascular	disease			
	(3)	RHD			(4)	Mitra	al annular ca	lcification	ı		
25.	In chronic MR, without LVF:										
	(1)	LVEF is normal	l								
	(2)	LVEF is more t	han no	ormal							
	(3)	LVEF is less tha	an nor	mal							
	(4) LVEF is less in mlid MR, but normal in severe MR										
26.	In severe MR $-S_2$ split is:										
	(1)	wide	(2)	reverse		(3)	fixed	(4)	single		
27.	If Pa	ansystolic murmı	ır in M	IR radiates	s towar	ds bas	se it indicates	:			
	(1)	Predominant ir	volve	ment of PN	ΛL						
	(2)	Predominant A	ML ir	ıvolvement	t						
	(3) dilatation of mitral annulus										
	(4)	LV systolic dys	functi	on							
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MC	C-004		5	P.T.O.							
	(3)	5% per annum	(4)	2% per annum							
	(1)	0.4% per annum	(2)	10% per annum							
35.	Poss	sibility of sudden cardiac death in a	symp	otomatic severe AS is :							
	(3)	> 120 mm 1g	(4)	> 50 mming							
	(3)	≥ 30 mmHg ≥ 120 mmHg	(4)	≥ 50 mmHg							
	grad (1)	lient is (with Normal CO) ≥ 30 mmHg	(2)	≥ 100 mmHg							
34.		Doppler study in Aortic stenosis suggests severe AS if mean transvalvular pressure									
	(3)	Pulsus tardus	(4)	Low volume pulse							
	(1)	Pulsus bisferiens	(2)	Pulsus parvus							
33.	Whi	ch is not found in relation to pulse	in sev	vere AS?							
	(3)	Atrial fibrillation	(4)	Heart failure							
	(1)	Angina	(2)	Syncope							
32.		ch is uncommon in severe AS ?									
	(1)	$4 - 5 \text{ cm}^2$ (2) $1 - 2 \text{ cm}^2$		(3) $3 - 4 \text{ cm}^2$ (4) $5 - 6 \text{ cm}^2$							
31.	Aort	ic orifice size in an adult is :									
	(3)	MVP due to chordal rupture	(4)	Rheumatic heart disease							
	(1)	I.E.	(2)	Inferior wall MI-papillary muscle rupture							
30.	Whi	ch is not the cause of Acute MR ?									
	(4)	Asymptomatic patient									
	(3)	LV dimension end systolic > 45 m	ומו								
	(2)	LVEF < 60%	arici u								
∠ <i>)</i> .	(I)	All symptomatic patient (class II		· · · · · · · · · · · · · · · · · · ·							
29.	I po mos	Vation to indications for surveys in	CANON	e MR findout, the wrong statement is :							
	(4)	4) MR jet reaches posterior wall of LA									
	(3)	Pulmonary vein systolic flow reve	ersal								
	(2)	Regurgitant fraction > 55%									
	(1)	Mitral regurgitation volume ≥ 30	CC								

28. The following echo findings are correct for severe MR except:

	(1)	With AS and se	evere L	V systolic	dysfur	iction							
	(2)	Asymptomatic	severe	AS									
	(3)	Symptomatic se	evere A	AS									
	(4)	Symptomatic n	nodera	te AS									
37.	Follo	owing condition	can lea	nd to Acut	e Aorti	c Regurgitation except :							
	(1)	Infective endoc	arditis		(2)	Aortic dissection							
	(3)	Trauma			(4)	Supracrystal VSD with AR							
38.	Noc	Nocturnal angina is a classical feature of :											
	(1)	Pulmonary hyp	pertens	sion	(2)	Mitral stenosis							
	(3)	Severe AR			(4)	Severe AS							
39.	Syst	olic BP of lower l	imbs i	s:									
	(1) 10 – 20 mmHg higher than that of upper limbs												
	(2)	10 - 20 mmHg lower than that of upper limbs											
	(3)	equal to that of	upper	· limbs									
	(4)	30 - 60 mmHg	higher	than that	of upp	er limbs							
40.	Find	out the most ap	propri	ate answe	r of the	statement — thrill is very rare in :							
	(1)	A.S.	(2)	MS									
	(3)	MR	(4)	AR									
41.	In se	evere AR, Aortic	Valve	Replaceme	ent is ir	adicated in the following situation except :							
	(1)	LVEF < 50%			(2)	LA dimension > 50 mm							
	(3)	LVED dimension	on > 7	5 mm	(4)	LVES dimension > 55							
42.	Commonest cause of Tricuspid stenosis is :												
	(1)	I.E. in IV drug	abuser	'S	(2)	RHD							
	(3)	Congenital and	omalies	5	(4)	Carcinoid disease							
43.	JVP	in Tricuspid ster	nosis _		with s	inus rhythm :							
	(1)	prominent 'a' v	wave a	nd slow 'y	7' desce	nt							
	(2)	prominent 'x' a	and 'y'	descents									
	(3)	ʻa' and ʻv' wav	es are	equal									
	(4)	absent 'a' wave	e and j	prominent	'v' wa	ve							
MC	C-004				6								

**36.** Aortic valve replacement is not indicated to all patients :

44.	Dop	pler velocity across T.V. is (norr	nally) :									
	(1)	< 1 m/sec and mean gradient	is < 2 m	mHg								
	(2) > 1.5 m/sec and mean gradient > 5 mmHg											
	(3)	(3) $1.5 - 1.7$ m/sec and mean gradient > 7 mmHg										
	(4)	1.7 - 2 m/sec and mean gradie	ent > 7.5	mmHg								
45.	Commonest cause of TR is:											
	(1)	Rheumatic TR (RHD)										
	(2)	(2) I.V. drug abusers										
	(3)											
	(4)	Carcinoid syndrome										
46.	Followings are clinical features of TR except:											
	(1)	Prominent 'v' wave in JVP	(2)	Pulsatile liver								
	(3)	Pan systolic murmur	(4)	Opening snap of T.V.								
47.	Find out the wrong statement:											
	(1)	(1) Normal amount of pericardial fluid 15 - 35 ml										
	(2)	Intrapericardial pressure vary from $-5$ to $\pm 5$ mmHg										
	(3)	) Normal parietal pericardium thickness is 5 - 10 mm.										
	(4)	(4) Pericardial pressure varies during respiration.										
48.	Which one of this is pathognomonic of pericarditis?											
	(1)	Chest pain – retrosternal	(2)	↑ST in ECG								
	(3)	Pulsus paradox	(4)	Pericardial rub								
49.	Ewa	art's sign is formal in :										
	(1)	Large pericardial effusion	(2)	Acute anterior wall MI								
	(3)	Complete A.V. block	(4)	Constrictive pericarditis								
50	Car	dire termonado is the result of :										

# Cardiac temponade is the result of :

- massive pericardial effusion (1)
- (2) tubercular pericardial effusion
- depends on rate of accumulation of effusion (3)
- develops with LV. fluid in pencardial effusion (4)

51.	- Whi - (1)	ich one of the following echo find RV early diastolic collapse	ing is r (2)	not a feature of cardiac temponade : RA diastolic collapse									
	(3)	IVC plethora	(2) $(4)$	$\Delta \gg \Gamma$ in M.V. flow pattern on doppler									
	(*)	C p.c	(-)	pattern car day files									
52.	Peri	cardial knock is a :											
	(1)	diastolic sound heard after $S_3$											
	(2)	high pitch sound heard earlier t	:o S <sub>3</sub>										
	(3)	low pitch soft sound heard earli	ier to S	3									
	(4)	systolic event.											
53.	In co	onstrictive pericarditis – JVP show	vs:										
	(1)	Prominent 'x' and 'y' descent											
	(2)	Large 'a' wave with raised JVP											
	(3)	Prominent 'a' and 'v' waves wit	th norn	nal pressure									
	(4)	4) Inspiratory decrease in JVP											
54.	In re	elation to ECG findings in Acute :	pericar	ditis, find out the wrong statement :									
	(1)												
	(2)	There can be PR segment depression											
	(3)	No reciprocal - ST occurs											
	(4)	Occasionally Q wave develops											
55.	In Peripartum cardiomyopathy find the wrong statement :												
	(1)	CCF occurs between last trimes											
	(2)	50% may recover completely		·									
	(3)	Subsequent pregnancy is not co	ontrain	dicated with recovery									
	(4)	Treatment is same to that of dil	ated C	MP									
56.	Arrl	Arrhythmogenic RV dysplasia commonly leads to :											
	(1)	congestive cardiac failure	(2)	PSVT									
	(3)	Recurrent VT	(4)	Severe pulmonary hypertension									
57.	Che	est x-ray findings in Restrictive Ca	ardiom	yopathy :									
	(1)	No significant cardiomegaly an	-										
	(2)	Gross cardiomegaly with pulme	_										
	(3)	Ventricles are predominantly d											
	(4)	Pulmonary artery hypertension											
58.	Clin	nical hall mark of Hypertrophic C	ardiom	yopathy is :									
	(1)	Systolic murmur	(2)	Cardiomegaly									
	(3)	$S_3$	(4)	$S_4$									
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59.	Find out the correct statement:													
	(1)	ln valsalva mu	rmur i	ncreas	ses in '	HOC	M and	d decreases in	AS.					
	(2)	In standing mo	irmur	decrea	ises in	HOC	.M.							
	(3)	Supine with leg elevated, murmur in HOCM increases.												
	(4)	1) With amyt nitrate, no change of murmur in HOCM.												
60.	Find	out the wrong	statem	ent in	relatio	on to	hvpe	rtrophic cardio	omyopath	y :				
	(1)	Some patien - may remain asymptomatic.												
	(2)	May present with anginal chest pain.												
	(3)	Sudden cardiac death occurs with HOCM only.												
	(4)	History of SCD in family may be present.												
61.	Subaortic gradient on HOCM is abolished by all except:													
	(1)	Beta blockers				(2)		atting						
	(3)	Valsalva mano	vera			(4)	•	neric hand gri	p					
62.	ECC	findings on my	ocardi:	tis are	all ex	cent :								
	(1)	Sinus tachycar				(2)		T changes						
	(3)	Prolonged QTc		al		(4)		sistent CHB						
63.	Mos	Most common cause of sudden cardiac death in young people is:												
00.	(1)				Lite victory.	(2)	.,,	tic stenosis						
	(3)	Coronary Artery disease HOCM						ited cardiomy	opathy					
64.	Factors associated with adverse prognosis in dilated cardiomyopathy is:													
04.	(1)	NVHA class II	itt aux	zerse t	11035110		(2) LVS3							
	(3)	Ventricular ect	anice			(4)	Young age							
	(0)	verational evi	opics			(-3-)	1 ()(1	ing age						
65.	Prog	gnostic factor on	Arrhy	thmog	genic I	₹V ca	rdion	nyopathy is:						
	(1)	Chest pain				(2)	Dys	pnea						
	(3)	Edema				(4)	Syn	cope						
66.	In Ii	nfective endocard	litis pa	itients,	, Feve	r is no	oted i	n :						
	(1)	42 - 75%	(2)	25 -	55%		(3)	80 - 85%	(4)	7 - 10%				
67.	Sens	sitivity of TEE to	r detec	ting v	egetat	ion ir	pros	thetic valve er	ndocarditi	s is :				
	(1)	80 - 96%	(2)		70%		-	36 - 50%	(4)	16 - 36%				
	0.00.													

68.	Janeway lesions in Infective endocarditis seen in :											
	(1)	70 -	80%	(2)	40 -	- 50%		(3)	10 - 30%	(4)	6 - 10%	
69.	Mos	st comn	non micr	o organ	ism i	n pros	thetic	valve	endocarditis i	n age >	12 yrs of age	
	(1)	Enter	ococcus				(2)	Stre	ptococci			
	(3)		a. aureus				(4)	-	CEK gp.			
70.	Risk	of Em	bolism d	uring Ir	nfecti	ve End	locard	litis increases with all except :				
	(1)	La-Ve	egetation	> 10 m	าท		(2)	Incre	easing vegetatio	on size di	uring therapy	
	(3)	Staph	. aureus	endoca:	rditis		(4)	Vege	etations on aor	tic valve		
71.	. Mortality in Infective endocarditis is highest with :											
	(1)	l) Viridans streptococci						Stap	h. aureus			
	(3)	Enter	ococcus				(4)	Fung	gal			
72.	Acute heart failure on Native valve IE occur								e frequently in	:		
	(1)	Mitra	l valve				(2)	Aort	tic valve			
	(3)	Tricu	spid valv	re			(4)	Puln	monary valve			
73.	LV apical impulse in HOCM is :											
	(1)	Not p	palpable				(2)	Нур	erkinetic			
	(3)	Shifted down and out					(4)	Dou	ble apical imp	ulse		
74.	All	All are acute manifestations of Rheumatic Fever except :										
	(1)	cardi	tis				(2)	arthritis				
	(3)	chore	ea				(4)	eryt	hema margina	tion		
75.	Mos	st frequ	ent mani	festatio	n of l	Rheum	atic fe	ever is	<b>3</b> :			
	(1)	Polya	ırthritis				(2)	Card	ditis			
	(3)	Chor	ea				(4)	Subo	cutaneous nod	ules		
76.	In R	Rheuma	tic cardit	is follo	wing	featur	es are	comn	non except :			
	(1)		l regurgi		J		(2)	heart failure				
	(3)		regurgi				(4)	tam	ponade			
		_										

	(1)	Initial one month	(2)	Initial six month								
	(3)	Initial nine month	(4)	Initial one year								
78.	Infective endocarditis in neonates is primarily caused by :											
	(1)	Streptococci	(2)	Staph. aureus								
	(3)	Polymicrobial	(4)	Coagulase negative staphylococci								
79.	Aort	Aortic Regurgitation on Echo is severe when :										
	(1)	Regurgitant jet width/LVOT dia	ameter	· > 30 - 60%								
	(2)	PHT ≥ 400 mec										
	(3)	Regurgitant fraction ≥ 50%										
	(4)	Effective regurgitant orifice $\leq 0$ .	.1 cm <sup>2</sup>									
80.	Preferred treatment for symptomatic severe MS is :											
	(1)	Open mitral valvotomy	(2)	Closed mitral valvotomy								
	(3)	MVR	(4)	Balloon mitral valvotomy								
81.	Read	dily palpable tapping S <sub>I</sub> in MS sug	ggests	:								
	(1)	anterior mitral leaflet calcified	(2)	AML-pliable								
	(3)	AML-fixed	(4)	Both AML and PML fixed								
82.	Clas	ssical finding of MS on Echo is :										
	(1)	Septal bounce	(2)	M V calcification								
	(3)	LV enlargement	(4)	Doming of MV during diastole								
83.	Aortic stenosis is considered severe when AVA is :											
	(1)	< 1 cm <sup>2</sup>	(2)	$1 - 1.5 \text{ cm}^2$								
	(3)	2 – 2.5 cm	(4)	$> 2.5 \text{ cm}^2$								
84.	Earl	y clinical finding of Severe Aortic	Steno	sis is :								
	(1)	Atrial fibrillation	(2)	angina								
	(3)	heart failure	(4)	GI bleed								
85.	Aor	tic valve is affected on patients w	ith mi	tral stenosis in approximately :								
	(1)	One third of patients	(2)	One half of patients								
	(3)	In three fourth patients	(4)	No involvement of aortic valve								
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77. Risk of prosthetic valve endocarditis is highest in :

(1) leaflet thickness

(2) mobility

(3) calcification

(4) isolated papillary Muscle Involvement

### 87. Normal Mitral Valve Area is:

(1)  $1.5 - 2.5 \text{ cm}^2$ 

(2)  $2.5 - 4 \text{ cm}^2$ 

(3)  $4 - 6 \text{ cm}^2$ 

(4)  $2 - 3 \text{ cm}^2$ 

# 88. Which of the following is not a feature of restrictive cardiomyopathy?

- (1) Presentation with right sided failure
- (2) Echo evidence of Near normal LV and dilated atria
- (3) Low voltage ECG
- (4) Dilated LV with decreased LVEF in Echo

# 89. Which of the following drugs does not have mortality benefit in DCMP?

(1) Frusemide

(2) ACE Inhibitors

(3) Carvedilol

(4) Spironolactone

# 90. Find the wrong statement in relation to Hypertrophic Cardiomyopathy:

- (1) Inappropriate myocardial hypertrophy in absence of hypertension on aortic stenosis
- (2) Myocardial disarray and interstitial fibrosis
- (3) Asymmetric Septal Hypertrophy is always present.
- (4) It is a genetic disorder due to mutation of genes.

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