# POST GRADUATE DIPLOMA IN CLINICAL CARDIOLOGY (PGDCC)

### **Term-End Examination**

00147

# December, 2012

# MCC-006 : CARDIO VASCULAR EPIDEMIOLOGY

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 <u>in OMR Answer Sheets</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) 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.

**MCC-006** 

1.	I. It has been estimated that in 2001 of all types.			_ million people died of cardiovascular diseases						
	(1)	5	(2)	12		(3)	17	(4)	30	
2.	The	most important	causes	for CVD dea	aths	are tl	ne following ex	cept		
	(1)	Coronary arter	y dise	ase	(2)	Нур	pertension			
	(3)	COPD			(4)	Rhe	umatic he <mark>a</mark> rt di	seases		
3.	CVI	D accounted for _		percent	of d	eaths	in developing	countri	es.	
	(1)	46	(2)	23		(3)	17.1	(4)	58	
4.	Sou	th Asians include	e the f	ollowing exc	ept_		•`			
	(1)	China	(2)	Malaysia		(3)	India	(4)	South Korea	
5. In the autopsy study done in Singapore, immigrants of India disease seven times more than						ants of Indian o	origin h	ad coronary artery		
	(1)	Chinese	(2)	Malaysians		(3)	Caucasians	(4)	Indonesians	
6.	On	coronary angiogr	aphy,	Asian Indian	s are	e four	nd to have the f	ollowin	g except :	
	(1)	Smaller corona	ry ves	sels	(2)	Larg	ger coronary ves	ssels		
	(3)	Fewer collatera	ls		(4)	More diffuse disease				
7. Coronary artery disease occurring before the age of in										
7.	Cor CA		as <b>e o</b> co	curring before	e the	age o	f in men i	s consid	dered as premature	
7.	CA									
7. 8.	CA (1)	D. 65 y <b>e</b> ars	(2)	55 y <b>e</b> ars		(3)	60 years	(4)		
	CA (1)	D. 65 years prevalence of Co	(2) ronary	55 years 7 Artery Disea	ase a	(3) mong	60 years	(4) ndians is	70 years s about	
	CA <sup>*</sup> (1) The (1)	D. 65 years prevalence of Co 12 - 16%	(2) ronary (2)	55 years 7 Artery Disea 5 - 6%	ase a	(3) mong (3)	60 years young Asian Ir 25 - 30%	(4) adians is (4)	70 years s about	
8.	CA <sup>*</sup> (1) The (1)	D. 65 years prevalence of Co 12 - 16% ang CAD is defina	(2) ronary (2) ed as s	55 years 7 Artery Disea 5 - 6%	ase a ery 1	(3) mong (3) Diseas	60 years young Asian Ir 25 - 30% se occurring bef	(4) adians is (4) ore the	70 years about 40 - 50% age of	
8.	CA <sup>1</sup> (1) The (1) You (1)	D. 65 years prevalence of Co 12 - 16% ing CAD is define 60 years	(2) ronary (2) ed as ( (2)	55 years 7 Artery Disea 5 - 6% Coronary Art 55 years	ase a ery ]	(3) mong (3) Diseas (3)	60 years young Asian Ir 25 - 30% se occurring bef 50 years	(4) adians is (4) ore the (4)	70 years about 40 - 50% age of	
8. 9.	CA <sup>1</sup> (1) The (1) You (1)	D. 65 years prevalence of Co 12 - 16% ing CAD is define 60 years	(2) ronary (2) ed as ( (2) MI is a	55 years Artery Disea 5 - 6% Coronary Art 55 years bout	ery ]	(3) mong (3) Diseas (3) ower f	60 years young Asian Ir 25 - 30% se occurring bef 50 years	(4) adians is (4) ore the (4) en comp	70 years about 40 - 50% age of 40 years	

(1) Higher than       (2) Lesser than         (3) Equal to       (4) Cannot be compared         12. Prevalence rate for CAD among urban population in India is	11.	Stand	lardized Mortalit	y Rat	e (SMR) for	CAD	is So	uth Asian men is		caucasians.
<ul> <li>(b) Equation (1) The equation of the</li></ul>		(1)	Higher than			(2)	Lesser than			
<ul> <li>(1) 7.6% - 12.6% (2) 4% - 5% (3) 18.8% - 22.6% (4) 26% - 30%</li> <li>13. Prevalence rate for CAD among rural population in India is (1) 1% (2) 3.1% - 7.4% (3) 15% - 18% (4) 18.6% - 22%</li> <li>14. The average monthly, household income in India is (1) 49 US Dollars (2) 100 US Dollars (3) 600 US Dollars (4) 18 US Dollars</li> <li>15. The economic burden of CAD in India is reported to be (1) Rupees 5 billion (2) Rupees 25 billion (3) Rupees 100 billion (4) Rupees 200 billion</li> <li>16. Prevalence of hypertension in India is in urban area. (1) 10 - 30.9% (2) 3.5 - 5% (3) 26.8 - 32.6% (4) 18.4 - 21.8%</li> <li>17. School study done in primary school children 6 - 10 years of age has shown a prevalence of RH1D of per 1000 children. (1) 10 (2) 6.8 (3) 3.9 (4) 12</li> <li>18. Atherosclerotic process starts as early as year of age. (1) 3 (2) 10 (3) 18 (4) 40</li> <li>19. Acute coronary syndromes occur in plaque. (1) Soft (2) Hard (3) Calcific (4) Fibrous</li> <li>20. Following are the non modifiable risk factors for Coronary Artery disease except : (1) Age (2) Gender (3) Family history of premature atherosclerosis</li> </ul>		(3)	Equal to			(4)	Can	not be compared		
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<ul> <li>(1) Soft (2) Hard (3) Calcific (4) Fibrous</li> <li>20. Following are the non modifiable risk factors for Coronary Artery disease except : <ul> <li>(1) Age</li> <li>(2) Gender</li> <li>(3) Family history of premature atherosclerosis</li> </ul> </li> </ul>		(1)	3	(2)	10		(3)	18	(4)	40
<ul> <li>(1) Soft (2) Hard (3) Calcific (4) Fibrous</li> <li>20. Following are the non modifiable risk factors for Coronary Artery disease except : <ul> <li>(1) Age</li> <li>(2) Gender</li> <li>(3) Family history of premature atherosclerosis</li> </ul> </li> </ul>										
<ul> <li>(1) Soft (2) Third (6) Contained (7)</li> <li>20. Following are the non modifiable risk factors for Coronary Artery disease except : <ul> <li>(1) Age</li> <li>(2) Gender</li> <li>(3) Family history of premature atherosclerosis</li> </ul> </li> </ul>	19.	Acu	ite coronary sync	lrome	s occur in _			plaque.		
<ol> <li>Age</li> <li>Gender</li> <li>Family history of premature atherosclerosis</li> </ol>		(1)	Soft	(2)	Hard		(3)	Calcific	(4)	Fibrous
<ol> <li>Age</li> <li>Gender</li> <li>Family history of premature atherosclerosis</li> </ol>										
<ul><li>(2) Gender</li><li>(3) Family history of premature atherosclerosis</li></ul>	20.	Foll	lowing are the no	n mo	difiable risk	facto	rs for	Coronary Artery	diseas	se except :
(3) Family history of premature atherosclerosis		(1)	Age							
(3) Family history of premature atherosclerosis		(2)	Gender							
(4) Obesity		(3)	Family history	of pr	emature ath	eroscl	erosis			
		(4)	Obesity							
			-							

21.	21. The biochemical / physiological risk factors for CAD are the following except :							except :		
	(1)	Hypertension		(2)	Dy	slipidemia	-	-		
	(3)	Diabetes Mellit	tus	(4)	An	aemia				
22.	The	in .	diet incre	eases LDL cho	lester	ol levels.				
	(1)	Unsaturated fa				bohydrates				
	(3)	Saturated fatty	acid	(4)		imal proteins				
23.	Hydrogenation of vegetable oil converts									
	(1)	Unsaturated fa								
	(2)	Saturated fatty				2				
	(3)	Unsaturated fa				5				
	(4) Saturated fatty acids to HDL cholesterol									
24.	Laci	c of physical activ	vity cane	or the following		ont i				
<ul><li>24. Lack of physical activity causes the following except :</li><li>(1) Increase in insulin sensitivity (2) Increase in blood lipids</li></ul>										
	(3)	Rise in blood p		· · · ·		-				
	(0)	Nise in brood p	ressure	(4)	IICI	ease in body wei	gnt			
25.	The	following persor	nality beh	aviour increas	ses the	e incidence of CA	D :			
	(1)	Туре А	(2) T	уре В	(3)	Туре С	(4)	Type D		
26.	The	following behavi	iours incr	ease the incid	ence o	of CAD.				
	(1)	Relaxed	(2) C	ompetitive	(3)	Hostility	(4)	Exuberant		
27.	The	chole	esterol is	considered as	good	cholesterol.				
	(1)	LDL		IDL	(3)	VLDL	(4)	Triglycerides		
					, ,		. ,	0.7		
28.	The	normal range for	r HDL ch	olesterol in w	omen	is				
	(1)	10 - 20 mg/dl	(2) 60	) - 80 mg/dl	(3)	30 - 40 mg/dl	(4)	100 - 110 mg/dl		
29.	The	normal acceptat	ole range	of LDL chole	esterol	in adult health	7 male	e without any risk		
		ors is								
	(1)	<b>130 - 1</b> 50 mg/d	1	(2)	200	- 220 mg/dl				
	(3)	50 - 70 mg/dl		(4)	170	- 180 mg/dl				

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30.		total cholesterol, of CAD.	/HDL	cholesterol	ratio 1	nore	than	_ is asso	ciated wit	h high		
	(1)	2.5	(2)	1.5		(3)	3.0	(4)	4.5	2		
31.	The	prevalence of C	AD an	nong adult	diabet	ic pat	ients is	<u> </u>		· · ·		
	(1)	10%	(2)	25%		(3)	80%	(4)	55%			
32.	The for C	stuc CAD, globally, a	ly is or s well	ne of the la as in each 1	rgest c region	ase c and a	ontrolled studio mong the diffe	es to eva rent ethr	luate risk nic groups	factors		
	(1)	AIRE			(2)	FRA	MINGHAM		:			
	(3)	TECUMSEH			(4)		ERHEART					
33.	prevention is concerned with controlling, reversing and treating the risk factors in the individual or in the community before any damage to the organ/system happens.											
	(1)	Primary	(2)	Secondar	y	(3)	Tertiary	(4)	Quatern	ary		
34.	study was the first study to show the effectiveness of change in life style in prevention of Atherosclerosis in a population.											
	(1)	INTER HEAR	Г		(2)	FRA	MINGHAM		. •	2. 2.		
	(3)	SEVEN COUN	NTRIES	5	(4)	NU	RSES HEALTH	ł				
35.	In Nurses Health study following changes except showed the impact on primary prevention.											
	(1)	Moderate to v	igorou	s exercise	(2)	Lov	v BMI					
	(3)	Smoking cess	ation		(4)	Sta	tins					
36.	The	The following drugs have been shown to be useful in primary prevention except :										
	(1)	Aspirin			(2)	AC	E Inhibitor		•			
	(3)	Statins			(4)	Cal	cium Channel	Blocker				
37.	The	Hydroxymethy	'l gluta	ryl - COA	reduct	ase ir	hibitor is	·•				
	(1)	Aspirin	(2)	Clopido		(3)	Statins	(4)	Nifedep	ine		
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38.	Acco calo		recom	mendation	on di	et, fat	intake shoul	d be less	s than of total			
	(1)	10%	(2)	30%		(3)	25 %	(4)	15%			
39.		he salient points of WHO recommen Illowing except :				s for d	liet in prevent	ion of atl	nerosclerosis are the			
	(1)	Saturated fat le	ess tha	n 10%	(2)	Plen	Plenty of fibers, fruits and vegetables					
	(3)	High intake of	High intake of proteins			Less of salt and Sugar						
40.	Non	ı pharmacologica	l mana	agement of	hyper	pertension include the following except :						
	(1)	Reduction of o	verwe	ight	(2)	Higl	h carbohydrat	e diet				
	(3)			(4)	Stre	ss manageme	nt					
41												
41.		D Sullivan criteria is used for : 1) Diagnosis of hypertension				Die	mania of anoth		ale at a c			
	(1)	-	-		(2) (4)		Diagnosis of gastational diabetes					
	(3)	Diagnosis of Ke	osis of keto acidosis			Diag	mosis of hear	t failure				
42.	Anti	i hypertensive of	choice	e in diabetes	is :							
	(1)	β blocke <b>r</b>	(2)	Diuretic		(3)	ARBsACEI	(4)	ALFA blocker			
43.	Whi	ch test is not use	ful in l	keto acidosi	s?							
	(1)	ABG	(2)	urine test		(3)	osmolality te	est (4)	Blood sugar			
44.	Uum	oglycemia is defi	in ad a									
44.	(1)	Blood sugar le			Cont							
	(1)	Blood sugar les										
	(2)	Blood sugar les		<b>e</b> ^								
	(4)	Blood sugar les		• •								
	(1)	bioou sugui les	o criai	Toome For								
45.	Whi	ch is not a featur	e of ke	eto acidosis	?							
	(1)	Increased free f	fatty a	cid	(2)	Deci	eased glucon	eogenesis	5			
	(3)	Osmotic diures	is		(4)	Cellı	ular dehydrat	ion				

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46.	Ave	rage fluid deficit	in ket	o acidosis is	:						
	(1)	Six litres	(2)	Four litres		(3)	Two li <b>tre</b> s	(4)	Ten litres		
47.		imum mortality i	n dial	betes patient							
	(1)	Hypoglycemia			(2)		lio vascular dise	ase			
	(3)	keto acidosis			(4)	CV	4				
48.	Leas	st likely cranial ne	rve ir	volvement i	n dia	betes	with double viss	ion is :			
	(1)	6 <sup>th</sup>			(2)	3rd					
	(3)	4 <sup>th</sup>			(4)	com	bined 3 <sup>rd</sup> and 4 <sup>t</sup>	<sup>h</sup> nerve	er		
49.	Dru	g useful for erecti	le dys	function is :							
	(1)	Nitrate			(2)	Pho	sphodiesterase in	nhibito	r		
	(3)	ACE inhibitor			(4)	Alfa	blocker				
50.	Swa	eting agent which	n cont	ain calorie i	c ·						
50.	(1)	Sorbitol	(2)	Xylitol		(3)	Fructose	(4)	Aspartame		
	( )		( )	,		( )		( )	1		
51.	Whi	ch is 3 <sup>rd</sup> generatio	on an	ti diabetic ?							
	(1)	Glimepiride	(2)	Gliclazide		(3)	Glipizide	(4)	Tol <b>butam</b> ide		
52.	Dru	g causes lactic aci	dosis	is :							
	(1)	Insulin sensitize			(2)	Phe	n formin				
	(3)	Sulphonylureas			(4)	Alpl	ha Glucosidase i	nhibita	rs		
53.	Whi	ch is insulin anal	ogues	?							
	(1)	Regular insulin			(2)	•	nasic insulin				
	(3)	Lente insulin			(4)	g - 1	argin insulin				
54.	Calc	orie requirement i	n diał	oetes is :							
	(1)	50kcal/kg	(2)	25kcal/kg		(3)	35kcal/kg	(4)	60kcal/kg		
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55.	Bloo	a volume starts	lume starts to rise in pregnancy at :							
	(1)	12 <sup>th</sup> week	(2)	4 <sup>th</sup> week		· (3)	6 <sup>th</sup> week	(4)	20 <sup>th</sup> week	
56.	Hear	rt rate peaks dui	ring :							
	(1)	1 <sup>st</sup> trimester	(2)	2 <sup>nd</sup> trimest	er	(3)	3 <sup>rd</sup> trimester	(4)	After delivery	
57.	Whi	ch is true in pre	gnancy	?						
	(1)	Pulse pressure	narrov	N	(2)	Syst	emic vascular re	esistanc	e increases	
	(3)	pulse pressure	widen	(4)		Bloc	d pressure rises			
58.	·								v prevention of :	
	(1) less than 140/90 mm Hg			(2)		than 130/85 mr	•			
	(3)	less than 120/3	80 mm	Hg	(4)	less	than 110/60 mr	n Hg		
			_			. 11				
59.										
	(1)	Childhood car			(2)		togenic effect			
	(3)	Growth retard	lation		(4)	Feta	l heart failure			
(0)	Dlee	= 1/2 life of E	malal	ic ·						
60.	(1)	ma 1/2 life of Es 25 min	(2)	9 min		(3)	5 min	(4)	2 min	
	(1)	25 mm	(2)			(0)		(-)		
61.										
<b>U</b> .	Sota	lol is :								
	Sota (1)	llol is : Selective β blo	cker		(2)	Nor	n selective β bloc	ker		
				nic drug	(2) (4)		n selective β bloc ilar to procaina			
	(1)	Selective $\beta$ blo		nic drug						
62.	(1) (3)	Selective $\beta$ blo	rhythn	-						
	(1) (3)	Selective β blo Class II antiar	rhythn or digita	alis ?						
	(1) (3) Whi	Selective β blo Class II antiar ich is not true fo Not crosses pl	rhythn or digita lacenta	alis ?	(4)	Sim		mide		
	(1) (3) Whi (1)	Selective β blo Class II antiar ich is not true fo Not crosses pl	rhythn or digita lacenta outine	alis ? drug of choi	(4) ce in	Sim treatin	ilar to procaina	mide		
	<ul> <li>(1)</li> <li>(3)</li> <li>What</li> <li>(1)</li> <li>(2)</li> </ul>	Selective β blo Class II antiar ich is not true fo Not crosses pl Consider as ro	rhythn or digita lacenta outine me wor	alis ? drug of choi	(4) ce in	Sim treatin	ilar to procaina	mide	, .	
	<ul> <li>(1)</li> <li>(3)</li> <li>Wh:</li> <li>(1)</li> <li>(2)</li> <li>(3)</li> <li>(4)</li> </ul>	Selective β blo Class II antiar ich is not true fo Not crosses pl Consider as ro WPW syndror	rhythn or digita lacenta outine me woo ilk	alis ? drug of choi rsen with dig	(4) ce in gitalis	Sim treatin	ilar to procaina	mide	,	
62.	<ul> <li>(1)</li> <li>(3)</li> <li>Wh:</li> <li>(1)</li> <li>(2)</li> <li>(3)</li> <li>(4)</li> </ul>	Selective β blo Class II antiar ich is not true fo Not crosses pl Consider as ro WPW syndror Excreted in m	rhythn or digita lacenta outine me wor ilk ongs to	alis ? drug of choi sen with dig which class	(4) ce in gitalis	Sim treatin	ilar to procaina	mide nia	drug	

64.	Thiazide ac	t on	which	part	of	nephron	?
-----	-------------	------	-------	------	----	---------	---

(1) PCT (2) DCT

65. Which is not a potassium sparing drug ?(1) Triamterene (2) Amiloride

#### 66. INR test is for monitoring of :

- (1) Heparin (2) Oral Antiplatelet
- (3) Low molecular Heparin (4) Warfarin
- **67.** Which is not true for warfarin ?
  - (1) Not safe in 1<sup>st</sup> trimester of pregnancy
  - (2) Can cause skin necrosis
  - (3) Dose monitoring done with APTT
  - (4) Amiodarone potentiate warfarin level
- **68.** Phospho-diasterase inhibitor cause all except :
  - (1) Vasodilatation
  - (2) Increased ionotropy
  - (3) Inhibition of platelet aggregation
  - (4) Decreased cytosolic calcium

**69.** Risk factor for pre- eclampsia is all except :

- (1) No family history (2) Hypertension in previous pregnancy
- (3) Renal disease (4) Nulliparous women

#### **70.** Which is not true for dobutamin ?

- (1) A weak beta agonist
- (2) Moderately lower pulmonary artery pressure
- (3) May produce desensitizing phenomena
- (4) Significantly increase heart rate.

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#### (3) Loop of Henle (4) Collecting duct

- (3) Eplirenon (4) Bumetamide

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71.	• Which of the following is not a cause of acute heart failure ?											
	(1)	Rupture chordee	(2)	RSOV								
	(3)	Myocardial infarction	(4)	Pregnancy								
72.	Noc	turid is :										
	(1)	Common in early heart failure	(2)	Common in late heart failure								
	(3)	Not a symptom of heart failure	(4)	Do not affect sleep								
73.	BNI	D level specific for heart failure is :										
	(1)	> 50 pg/ml (2) > 1000 pg	;/ml	(3) > 100 pg/ml (4) > 100 mg/ml								
74.	Which is not a cause of high output failure ?											
	(1)	Polycythemia vera	(2)	Anaemia								
	(3)	Pregnancy	(4)	Hypothyrodism								
75.	All	are causes of dominant diastolic he	eart fa	ailure except :								
	(1)	Hypertension	(2)	Severe aortic stenosis								
	(3)	НОСМ	(4)	Myocardial infarction								
76.	Nas	irides are :										
	(1)	Nitrate										
	(2)	Belong to human. $\beta$ . type natrium	retric	peptide								
	(3)	An Inotroper										
	(4)	Is a oral drug										
77.	Whi	ich is useful in heart failure ?										
	(1)	Hydralazine	(2)	Endothelin								
	(3)	Manitol	(4)	Prostaglandin inhibitor								
78.	Whi	ich is well tolerated in pregnancy ?	>									
	(1)	Aortic stenosis	(2)	НОСМ								
	(3)	Mitral regurgitation	(4)	Primary PPH								
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- 79. Most patient with aortic stenosis tolerate pregnancy when valve area is :
  - (1) >1.0 cm<sup>2</sup> (2) > 1.5 cm<sup>2</sup> (3) < 1.0 cm<sup>2</sup> (4) < 1.5 cm<sup>2</sup>

### 80. Which is not true for marfan syndrome ?

- (1) Pregnancy is safe (2) Dissection of aorta is common
- (3) High risk for child inheritance (4) Dilatation of ascending aorta.

# 81. Which is not a complication of marfan syndrome ?

- (1) Abnormal placental site (2) Post partum haemorrhage
- (3) Cervical incompetence (4) Coronary embolism

### 82. Which is true in coarctation of aorta ?

- (1)  $\beta$  blocker not useful
- (2) Cannot be treated non surgically
- (3) Rupture of cerebral anevrysm can occur
- (4) Bicuspid aortic valve is rare association
- 83. True statement for Heparin is :
  - (1) Crosses placenta
  - (2) Not safe in pregnancy
  - (3) Risk of fracture is not a complication
  - (4) Sterile abscess can occur.

#### 84. Peripartun cardiomyopathy is :

- (1) Form of restrictive cardiomyopathy
- (2) Common in nulliparous.
- (3) Common in less than 30 years
- (4) Low selenium level implicated
- 85. Eisenmenger syndrome is a term coined by :
  - (1) Paul Stephen (2) Paul Wood (3) Paul Kristina (4) Paul Eisen

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- 86. Eisenmenger syndrome is earliest in :
  - (1) ASD (2) VSD (3) PDA (4) A-P window

#### **87.** DVT is common with all except :

- (1) Malignancy (2) Major general surgery
- (3) Major orthopedic surgery (4) Anaemia

88. Pulmonary embolism is common with thrombosis in :

- (1) Superficial vein of leg (2) Axillary vein
- (3) Subclavian vein (4) pelvic vein
- **89.** In pulmonary embolism which is true ?
  - (1) Echocardiography is sensitive to detect thrombi in pulmonary circulation
  - (2) Pulse oxymetry is sensitive to diagnose PE
  - (3) Ventilation is abnormal
  - (4) CT scan reduces utility of ventilation perfusion scan

**90.** Choice of drugs in obes diabetes :

(1) Pioglitazone (2) Insulin (3) Metformin (4) Gliten calamide