

### PG DAC Feb 19 Software Application Development Tools & Techniques

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4. What is type of software maintenance?

a) Adaptive

b) Corrective

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Risk Management			
User Interface Design			88
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1. In use-case diagram, what is system			
a) Oval <b>b) Box</b>	c) Circle	d) Triangle	
2. UML supports phase a) Earlier b) Final	es of software dev c) Middle	velopment <b>d) All</b>	
<ul> <li>3. Requirement analysis</li></ul>	developer	ser requirements	

c) Perfective

d) Obsolescence



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5.	Which of the follo satisfying require	_		es choosing a	system structure ca	pable of	
	a) Requirement a	nalysis <b>b</b>	) Design	c) Coding	d) Testing		
6. F	Pick up the odd on	e out of the fol	lowing				
a) [	Data flow diagram	b	) Object identi	fication			
c) S	structural decompo	osition c	l) E-R diagrams	5			
·	·						
7.	7 Lifecycle model describe how software system should be developed and describe how software are actually developed.						
a) F	Prescriptive & Des	•	b) Prescri	ntive & Defini	itive		
-	Descriptive & Presc	=	•	•			
C) L	rescriptive & riesc	riptive	d) Descrip	otive & intaiti	VC		
8. 1	he requirement p	hase consist of					
A) I	Problem analysis	B) Requ	irement speci	fication			
C) F	Requirement valida	ation D) Prob	lem validation				
a) <i>A</i>	A, B, C <b>b) A</b>	, B, C, D	c) A, B, D	d) A, C	C, D		
-							
9.	is a n	nethod for esti	mating the sof	tware			
	СОСОМО				Case Estimation	d) All of the	
,	above	•				•	
10.	The elements of t	he software ar	chitecture of a	computing sy	vstem include		
	Software compone			3 7			
•	Class diagrams						
-	Connectors express	sing relationshi	ins between so	oftware comp	onents		
-	entity relationship	_	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	4			
	L & 2	b) 1 & 3	c) 1.	3 & 4	d) 1, 2, 3 &		
۵, -	4	_,	0, 1,	3 G.	u, 1, 2, 3 u		
11	Ahility of a softwa	re to perform	intended funct	ion with mini	mum consumption o	of computing	
	resources	ire to perioriii	interraca rance		mam consumption c	a compating	
a) F	Efficiency	h) Rohustnes	s c) Reliabili	tv (	d) Correctness		
u, i	inciciety	b) Nobustiles	5 C/ Nellabili	· ·	a) correctiess		
12.	Ability to deal wit	h exceptional c	onditions e.g.	invalid input.	improper handling, p	oower failure.	
	disk crash etc.		J	. ,		•	
a) E	Efficiency	b) Robi	ustness	c) Reliability	d) Correc	tness	
S., -		3, 1103		o,,	a, coco		
13.	The type of testin	g carried out a	ong with codir	ng is called			
<ul><li>13. The type of testing carried out along with coding is called</li><li>a) System testing</li><li>b) Unit testing</li><li>c) Pretesting</li><li>d) Stress testing</li></ul>							
ω, c	,, , , , , , , , , , , , , , , , , , , ,	<i>5,</i> 5/110		5, 1. 1. 2. 2. 3. 11 18	5 a, 50, 633		
1/1	Maintainahility is	the ease with	which a softwa	are can			
	<ul><li>14. Maintainability is the ease with which a software can</li><li>a) Be corrected if an error is encountered</li></ul>						
•	Adapted if its env						

c) Enhanced if the customer desires a change in requirements



a) Data Flow Diagram

above

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d)	All of above		
15.	The type of software maintenance v	which is done to remove	bugs or defects in the software is
a) (	Corrective Maintenance	b) Adaptive Maintenan	ce
	Regressive Maintenance	d) Perfective Maintenar	nce
16.	RAD stands for		
a) F	Rapid Application Development	b) Random Acces	s Disc
c) F	Random Application Driver	d) Rapid Alignme	nt Disc
_	Which of the following is not true al	bout Component Assemb	oly Model
a)	It is similar to the Spiral Model		
•	The technical framework for this mo	· · · · ·	_
c)	Candidate classes are extracted from	m class library or develop	oed
d)	Its productivity is low		
18.	Which of the following is not true al	bout the context diagram	1?
	It does not show details of the function		nows major inputs & outputs of the
c) 1-	system t shows the external entities of the s	vetom s) It chows t	the data stores of the system
C) I	t shows the external entitles of the s	cystem cytt snows i	the data stores of the system
19.	Data Items in a data dictionary are o	description of	
	Input data b) Data flows	c) Data stores	d) All of the above
,			•
20.	The ways of describing specification	ns at different levels of de	etail include
		equirements specificatio	
c) E		) None of these options	
21.	Stable requirements are		
a)	Requirements related to the core a	ctivities of software cus	tomer
<b>b</b> )	Requirements which are dependent	t on the environment wh	ere the delivered system is
b)	Requirements which are dependent to be used	t on the environment wh	ere the delivered system is
		t on the environment wh	ere the delivered system is
c)	to be used	t on the environment wh	ere the delivered system is
<b>c)</b> d) [	to be used Both a and b options None of these options		ere the delivered system is
<b>c)</b> d) f 22.	to be used Both a and b options None of these options Functional Independence is not ach	ieved by	
<b>c)</b> d) f 22.	to be used Both a and b options None of these options		ere the delivered system is  d) Any of the above
c) d) f 22. a) (	to be used Both a and b options None of these options  Functional Independence is not ach Coupling b) Modularity	ieved by c) Information Hiding	d) Any of the above
c) d) f 22. a) (	to be used Both a and b options None of these options  Functional Independence is not ach Coupling b) Modularity  If two modules are coupled without	ieved by c) Information Hiding c exchange of data or con	d) Any of the above trol information then they exhibit
c) d) f 22. a) (	to be used Both a and b options None of these options  Functional Independence is not ach Coupling b) Modularity  If two modules are coupled without Normal Coupling b) Stamp C	ieved by c) Information Hiding c exchange of data or con	d) Any of the above
c) d) f 22. a) (	to be used Both a and b options None of these options  Functional Independence is not ach Coupling b) Modularity  If two modules are coupled without	ieved by c) Information Hiding c exchange of data or con	d) Any of the above trol information then they exhibit

b) Structure Chart

c) Decision Tree

d) All of the



25. Changes mad	le to the softwa	re to correct d	efects uncovered	after deliver	y is called
a) Perfective maintenance		b) Re	gressive maintena	ince	
c) Adaptive main	tenance	d) Co	rrective maintena	ance	
26. Arrange the f	ollowing in the	correct seque	nce of software es	stimation a. S	Schedule Estimation b.
Estimation c. Cos	t Estimation d.	Size estimation	n		
a) B, C, A, D	b) C, A, B	, D	c) D, B, A, C	d) A, C,	D, B
27. Final Function	n point count ca	alculated for p	roject will result ir	n the smalles	t LOC if implemented
a) Assembly	b) C	c) C++	d) Visual Ba	sic	
28. Project sched	lule can be illus	trated using			
a) DFD and ERD	b) Bar ch	_	c) Activity chart	d) Both	b and c options
29. Most of the p	project plans sh	ould include			
=	b) Projec		c) Project sc	hedule	d) All of the above
	•		en the different ac	tivities maki d) Pi chart	ng up a project.
31. Chief Prograr a) With research c) With high crea	nmer Teams ar orientation tivity	e suitable for p <b>b) With hig</b> d) None of	projects th modularity these		
32. Judging the s	eriousness of a	risk by evaluat	ing its probability	along with i	ts consequences is
a) Risk analysis	b) Risk Pi	rojection	c) Risk Estimation	d	) All of the above
33. The RMMM a) Feasibility Stud	_	-	ne c) SRS Docui	ment	d) Project Legacy
	Rect() puts WM b) False		ge in message que Always	eue.	
35. Update Wind a) True	ow() paints the b) False		Always		
36. HINSTANCE t	ype variable sto	ores id of runni	ng application		
a) True	b) False		Always		
37. The WM_INI box is is playe		ge is sent to th	ne dialog box proc	edure imme	diately before a dialog
a) True	b) False	c) Not	Always		



38. Send Messag	ge is not directly	send to the wi	ndow procedure.	
a) True	b) False	c) Not	Always	
39. Icon is a Text	resource.			
a) True	b) False	c) Not	Always	
40. Sub classing	means changing	the behaviour	of controls.	
a) True	b) False	c) Not	Always	
41. CALLBACK fu	nctions are calle	d by the opera	ting systems.	
a) True	b) False	c) Not	Always	
42. WINAPI is no	t related to callin	ng conventions	5.	
a) True	b) False	c) Not	Always	
43. Which of the	following opera	tions is provid	ed by a common dialo	og box?
a) Choosing an i	С	b) Choosing	a network drive.	
c) Choosing a da	atabase.	d) Choosing	a font.	
44. What is the p	orimary differenc	ce between Se	nd Message and Post	Message?
a) Send Messag	ge is used for loca	al queues, whi	le Post Message issue	ed for remote queues.
b) Send Messag time.	ge can only be us	ed within a wo	orker thread, while Po	ost Message can be used at any
C) Send Messag messages to		messages to tl	ne application thread	, while Post Message can send
		vithin a Windo	ows procedure, while	Post Message is called from
within messa	age queues			
45. Menu is				
a) GDI Object		ce	c) Picture	
46. Following is a	not type of Devic	e Context		
a) Screen Device			ndow Device Context	
c) Client area De	vice Context	d) Vie	w Device Context	
47. Modal Dialog	g Box is created o	on	&Mode less Dialo	g Box is created on
a) Heap , stack	b) Stack ,	heap		
48. Which of the	following are re	sources.		
a) Menu	b) Bitmap	c) Status Bar	Icon	
49	function crea	ates model dia	log box.	
a) Create Dialog(			c) Dlg Box()	d) Unknown



50	is return type	of window proce	dure.		
a) Handle to the w	vindow	b) LRESULT	c) B	OOL	
51. To subclass wi					-/\
a) Set Class Long()	Set Class()	b) S	et Long Class()	c) Settiing	3()
52. The three class	ses of interface	errors are:			
a) Inter face misus	se b) Ir	nterface misunde	rstanding	c) Timing errors	S
53	is firs	t message passed	d to window proce	edure.	
a) WM_PAINT WM_COMMA	b) W				
54 a) Create Dialog()				c )Dialog Box()	
55. Write Window	rs massagas in l	higher order			
a) WM_TIMER WM_PAINT	_	_	VM_LBUTTONDO	WN d) Sent M	lessage e)
a) 1 , 2 , 3 , 4 , 5	b) 5, 4, 3	,2,1 c) 2	2,3,4,5,1	d) 3, 4, 5, 1, 2	2
<ol> <li>Write steps to</li> <li>Initialise and R</li> <li>Create window</li> <li>Display Windo</li> <li>Message loop</li> <li>WndProc</li> <li>1,2,3,4,5</li> </ol>	egister Windov v w	w class		d) 4 , 5 , 1 , 2 , 3	3
	_	_	s messages from t	<del>-</del>	· · ·
58. Get DC() is use	ed to retrieve th		handle for the wi	indows client area	a when
•	o) False	c) Not alv	vays		
59. If a printable k	ey is pressed the stored in Parm	<del>-</del>	nessage will be ge	nerated and the A	ASCII code of
	o) False	c) Not alv	vays		
60. Whenever WN generated tha the mouse poi	t time LOWORI	<del>_</del>	EMOVE, WM_RBI WORD (Param) co		=
a) True	o) False	c) Not alv	vays		



a) True

b) False

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61. Predefined o	<del>-</del>	1MAND message whereas common controls send
a) True	b) False	c) Not always
62. A Device Co a) True	ntext is a GDI structure, b) False	which deals with text and graphics. c) Not always
63. A Metafile is a) True	s a collection of GUI fun b) False	ctions that are encoded in a binary format. c) Not always
64. A Clipboard a) True	is used to transfer infor b) False	mation between applications or within application.
65. Win Main is a) True	an entry point for wind b) False	ows application. c) Not Always
66. Menu is GDI a) True	Object. b) False	c) Not Always
67. WINAPI is a a) True	API function which expl b) False	licitly calls Operating System to run Window Procedure. c) Not Always
68. When funct a) True	ion key(s) pressed on th b) False	e keyboard that time WM_KEYDOWN message is generated c) Not Always
69. LRESULT is a a) True	return type of Dialog P b) False	rocedure. c) Not Always
70. Set Pixel is u a) True	sed to draw a particula b) False	r pixel with a particular colour. c) Not Always
71. GetROP2 () a) True	is used to get the currer b) False	nt drawing mode. c) Not Always
72. Palette is an a) True	attribute of a device co b) False	ontext. c) Not Always
73. Windows TI a) True	MER is not an input dev b) False	ice. c) Not Always
74. In MDI appli a) True	cation the default wind b) False	ow procedure for main Window is Def. WindowProc (). c) Not Always
75. The WM_IN	<del>-</del>	ent to the dialog box procedure immediately before a dialog

c) Not Always



76. In M	IDI application of	child windows are	e created by mai	nframe windc	ows.	
a) True	b) Fal	se	c) Not Always			
77. Curs	or is a GDI Obje	ect.				
	b) Fal		c) Not Always			
78. Sub	Classing means	changing the be	haviour of the co	ontrols.		
		se		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
70 Cala	Dialaa hawis		- h			
	b) Fal	s a common dialo	g box. c) Not Always			
a) IIue	b) i a	13 <b>C</b>	c) NOt Always			
		ndow procedure				
inclu	ide the identifie	er	in a win	idow class str	ucture before	
		b) CS_DBL	CLKS c) C	S_DBLCLICKS	d) (	CS_DBLS
e) CS_D	OUBLECLICKS					
81.		is used to pla	av the metafile.			
a) Play	Meta Play File	Play Meta file	b) O	pen Meta file		
		s common contro			h heade	
a) COM	MONCTL	b) COMCTL	c) C(	DMMDLG	d) COMM	ICTL
83 VOII	can obtain the	state of Shift key	s by using		function	
a) Get	Kev State( )	state of Shift key b) Key get \	/alue( )	c) Get State	ranetion. ( )	Get Status( )
,		1, 1,01	,	,	- ,	,
84. Entr	y point functior	of a DLL is		•		
a) Mair	n() b) DL	L Main()	c) Start Di	LL()	d) Run DLL ()	
85.		is a function for	creating a Threa	d.		
	Thread( )		) c) Create		nce ( ) d) (	Create Thread (
)						
	· ·	esting methods g		=	_	ation a
a) Equiv	alence partition	ning b) Bo	undary value and	alysis (	i) Basis path te	sung
87. For (	drawing an Icor	on client area of	f window	funct	ion is used.	
	<del>-</del>	b) Paste Icon ( )			d) Load Icon ( )	)
		gical font by callir	_	_		
-	te Font( )	b) CreateFo	ontdirect( )	c) CreateFor	ntIndirect( )	d) New Font
()						
89. Dvna	amic Linked Lih	rary is loaded in t	the memory at			
=		b) Run time		— ne (	d) Compile Tim	e.



90. M				\ D		N. I.	
a) GL	OI Object	b) Resourc	e c	c) Picture		d) Item	
a) Is		l is used to check ormat Available ()	()		ipboard Co	ooard. ontain Data (	)
	llowing opt M_ISOTROP	ion is not a mapp IC b) M	oing mode. M_TEXT	c) MM_	BITMAP	d) MM_	_HIMETRIC
93. Fo	ollowing is r	not a type of devi	ce context				
	een Device			ndow Device	Context		
-		ice Context	-	v Device Con			
,			,				
94. Fo	ollowing is r	not a raster opera	ation.				
a) R2_	COPYPEN		b) R2_XORC	OPYPEN			
c) R2_	NOT		d) R2_YES				
	-	e of a running pr				address spac	e.
a) 4 G	iB	b) 2 GB	c) 6 GB	d) 64 M	IB .		
06 Da	efault size o	f hoan is					
a) 2 M		b) 1 MB	(	c) 32 MB		d) None of th	e ahove
u) 2 10		S) I WID		., 32 1110		a) None or th	e above
97. Fo	llowing is n	ot a bitmap relat	ed API call.				
	te Bit ( )	b) Bit Blt ( )		tch Blt ( )	d) Pa	t Blt ( )	
98. W	indows Me	ssage contains fo	llowing infor	mation.			
		y of a window		tion of wind			
c) Han	dle of wind	low	d) Roo	ot class of a w	vindow		
00				in Mindon	D	-i (\A/i 22	D
99	1 PAINT	_ is a lowest prio b) WM COMMA		in windows c) WM CHAR		ning. (Win 32 // TIMER	Programming)
a) vviv	I_PAINT	b) www_colvilviA	IND C	.) WIVI_CHAN	u) vvi	N_IIIVIEN	
100. S	etROP2() fi	unction is used to	change the F	Raster Opera	tion the D	evice Contex	t.
a) Tru		b) False	_	Always		evice contex	
,		•	,	,			
101. C	reate Enh I	Meta File returns	handle of the	e metafile			
a) Tru	e	b) False	c) Not	Always			
		n store 'n' no of	tormats at a t		- منا		
a) Tru	е	b) False		c) Not A	aiways		
103	If 4 window	s are running in	a single annli	ration then t	here are 1	. Μεςςασε Οιι	elles
	True	b) False	a surbic appli	c) Not A		coode Qu	- des.



104. With Create Window	and	functions are
used to display the window.		
a) Display Window(), Update Window(	) b) Show \	Window( ), Dialog Box( )
c) Show Window( ) , Update Window( )		ow ( ) , Repaint Window ( )
105. The Windows system32 directory c perform certain task in the windows	· · · · · · · · · · · · · · · · · · ·	function to user application to
•		d) WIN32.DLL
a) GDI32.DLL b) KERNEL32.DLL	C) USERSZ.DLL	u) WINSZ.DLL
106. The layer between the application	and different types of hard	ware
a) Application Layer b) GDI laye	r c) Data Layer Sh	nell Layer
107. The Message received if the right i	nouse button is pressed in t	the non-client is
a) WM_RBUTTONDOWN	b) WM_NCRBUTTONDOWN	ı
c) WM_NCIRBUTTONDOWN	d) WS_RBUTTONDOWN	
108. In order to receive DoubleClick me		
a) 1DB_DBCLK b) CS_DBLCLICK	c) CS_DBLCLKS d) CS_DBL	LCLK
109. Which message helps in detecting	mouse movement and find	ing mouse cursor position
	b) WM MOUSEPOS	
c) WM_ONMOUSEMOVE	d) None of these	
3, 1111 <u>-</u> 3111113	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
110. When child Control in a dialog box	is activated window sends	which message?
	ttem c) WM_NOTIFY	_
	_	· —
111. Which function will test whether t	he message is the dialog bo	x or the window?
a) Dlg Message()	b) Send Dlg Message(	()
c) Translate Message()	d) Is Dialog Message(	)
112. Which function creates a modal di	alog box?	
a) Create Dialog() b) Dialog Bo	ox() c) Do Modal()	d) Create Dialog Box()
113. Which function creates a modeless	_	d) Coord o Biolog Boy ()
a) Create Dialog() b) Do Mod	al() c) Dialog Box()	d) Create Dialog Box()
114. Modal Dialog Box is destroyed by ca	alling which function?	
a) End Dialog() b) Destroy Dialog()	· ·	d) End Modal()
.,	-, (,	,
115. Which function sends a message to	controls in a dialog box?	
a) Send Dlg Item Message()	b) Send Dialog Messa	ge()
c) Send Dialog Item Message()	d) none of these	
116. The register() function takes a poir	iter to the Windlass structu	re as a parameter
a) True b) False		



117. WM_CHAR is a capa a) True	ombination of WM_KE b) False	YUP and WM_KE	YDOWN.	
118. Only Modeless D a) True	pialog box can be moved b) False	d on the screen.		
119. The ID value for a) True	the child window is pas b) False	sed by Param Pai	rameter with	n the message.
_	e it is better to initialize b) WM_INITDIALOG			ialog box. d) WM_COMMAND
a) Specified File	File function copies the b) Create Meta F d) Copy Data Ge	ile	dow-format	Meta File to
122. Translate Messa a) True	ge Detects a Keyboard a b) False	action that transl	ates to an A	NSI Character
area	tes are pixels measured	I from the upper	left corner o	of the window's client
a) True	b) False			
124. Select Object fur a) True	nction obtains an object b) False	t from Device Cor	ntext	
125. Create pen Retura) True	rn handle to Old Pen b) False			
126. Which function u	use to copy file from on	e Device context	to another	
127. Device Context E	Bit Create Compatible D	c Copy Copy Bit		
128. Handle to BITMA a) HBITMAP	AP is b) HACCEL	c) HDC	d) HBMP	
129. To Create Thread a) Begin Thread		c) do Thre	ad	d) Create
130. WM_CREATE Me a) True	essage is generated afte b) False	er Window is Disp	olayed	
131. The Thread Cont a) Setting Thread Prior c) Resuming Thread	rol Panel is capable of pity	performing the fo b) Suspending a d) Terminating a	Thread	on



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132. a) 15		e used to Set threa c) 4	nd priority	d) -1		
133.	·	deless dialog which		·	its resource fil d) WS_DISP	
	A Mouse Click or VM_COMMAND	n Menu Bar genera b) WM_NO		c) WM_CHAR	d) WM_MEI	NUCLICK
	Change in the siz M_RESIZE	ze of the status ba b) WM_SIZE	_	:: M_CHANGE	d) WM_COM	MMAND
136. a) T		) determines the p b) False	hysical dim	ninution of the fo	ont currently s	elected in the DC.
137. a) T		pares the window b) False	s client are	a for painting.		
	Rectangle function Parameters	on takes : b) 5 Parameters		c) 4 Parameters	d) Nor	ne Of the Above
	.window.	ructure must be re b) False	gistered wi	th the window b	efore it can b	e used to create a
140.		ution of a thread: b) Suspend Threa	nd() c) Te	rminate Thread(	) d) None of T	- hese
	The following are	e the steps of SDL0 b) De		c) Testing	(	d) All of the above
re a) Sp	The SDLC Model equirements is iral Model aterfall Model	most suitable for <b>b) Increme</b> d) Prototyp	ental Mode		owledge & pri	ority of
a) It i	Which of the foll s suited for small gives efficient sta		b) It	Vaterfall Model? does not consident needs clarity of	er risk handlin	_
a) Th	Prototyping in sorow - away proto	•	y involve _ b) Evolutio d) None of	onary		

144. Which of the following model may require largest deployment of manpower

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a) Incremental Model c) Component Assemb	oly Model	b) Waterfall Mod d) RAD Model	lek	
145. The majority of that a) Maintenance	ne lifetime of a p b) Analysis			phase
146. In Boehm's spiral a) Phase		op in the spiral repr c) Documentatio		of the software process d) None of the above
147. Which of the folloa) Data Sources	=			Diagram d) Users
148. Data flow cannot a) A store & a process c) Store & an external	b) I	External entity & pr	ocess	
<ul><li>149. "Balancing of DFD</li><li>a) Conservation of in</li><li>b) Sub dividing a prod</li><li>c) Labelling of all data</li><li>d) Allowing data flow</li></ul>	puts & outputs cess into smaller a items	r sub processes	cesses	
150. A data flow diagra a) Logical model of a s c) Representation of t	ystem	·	ood guide to	•
151. DFDs, decision ta a) Requirements analy c) Software Design		rees are tools of b) Requirements d) All of the abo	_	
152. Which model use abstract to fairly de		processing at differ	ent levels of	f abstraction from fairly
a) Semantic Data Mod	els b) Object	t Model <b>c) Data Flo</b>	w Models	d) Service Usage Models
153 Models of by the system.	describe the log	ical structure of the	data which	is imported to and exported
, ,	mantic data	c) Data flov	W	d) None of the above
154. Which of the follo a) They consist of obje c) It indicates modality	ct-relationship	pairs	b) It indicated) All of the	tes cardinality of relationships e above
155. Which of the folloa) Unambiguous	owing is not a ch b) Verifiable	naracteristic of a go c) Redunda		ument? d) Consistent



Value Analysis?

# **USM's Shriram Mantri Vidyanidhi Info Tech Academy**

a) Axiomatic Specificat	tion	b) Algebraic Specification d) Data Flow Diagram		
c) 2 Specification		u) Data Flow Diagrain		
157. Which is the mos	t undesirable forn	n of cohesion from the foll	owing options	
a) Sequential	b) Coincidental	c) Temporal	d) Communicational	
158. The external inte	rface design proce	ess should be		
a) Developer centered	l b) U:	ser centered		
c) Administrator cente	ered d) Ma	anagement centered		
159. Which of the follo	owing is true with	respect to function orient	ed & object oriented desi	gn
a) They vary in the bas	sic abstractions th	ev use		
b) They vary in the wa				
c) They vary in the wa	y functions are gro	ouped		
d) All of the above				
	ents capture b) Ar b) A, B, C & D  owing is NOT true use problem doma the code at cruci sed to document of e LOC size of the s	about comments ain terminology al places only changes to the code	·	ave a
a) Eases the task of ir		ware modules		
b) Enhances the softw				
c) Enhances reusability	y of the software			
d) All of these options				
4.62				
	ta into a self-suffi iing	g method which combines cient block that can be use b) Top down desigr d) Structured progr	ed in other programs. n	
163. A test case desig	n technique that	makes use of a knowledge	of the internal program I	ogic
a) Black Box Testing	·	<del>-</del>	Testing d) None of	_
164 Block boy tost	soo oon bo dawiisa	d from		
164. Black box test ca			d) Deorido codo	
a) Source code	b) Flowchart	c) SRS Document	d) Pseudo code	
165. Which of the follo	owing is true abou	ıt Boundary		



a) It is an approach to desig	ning black box test cases		
<ul><li>b) It is complementary to</li><li>c) It gives test cases based</li><li>d) All of the above</li></ul>	Equivalence Class Portionir I on the boundaries of the		
166. Cyclamate complexity	is calculated from		
a) Data Flow Graph	b) Structure	Chart	
c) Control Flow Graph	d) All of the above		
167. Which of the following a Program	; is true about McCabe`s Cy	yclamate Complexity of	
a) It is an indicator of the st	ructural complexity of a pr	ogram	
b) It gives the maximum n	o of independent paths in a	a program	
c) It is calculated from the	e no. of edges & nodes in tl	ne Control Flow diagram	
d) All of the above			
460 Effective Cefference Dec	.:		
168. Effective Software Pro	-		
a) People b) Probler	n c) Process	d) All of above	
169. Which of the following a) Configuration Managen		the SPMP document? lity Assurance Plan	
b) Risk Management Plan		uirements Elicitation Plan	1
b) Misk Management Flan	u) nequ	direments Encitation i lai	•
170. Conversion of Adjuste	d Function Point Count to I	OC count is dependent o	n
		ramming Language	d) Cost Drivers
<ul> <li>171. The critical path of PEI</li> <li>a) The path with the longe</li> <li>b) More than one unique</li> <li>c) Path on which any dela</li> <li>d) Path with same earliest</li> </ul>	est duration path ys are allowed	ivates	
172. Which of the following a) Performance b) C	g are Software Risk Compoi Cost c) Schedule	nents <b>d) All of the abo</b>	ove
173. The total float for an a	ctivity is	,	
a) The total duration of the	•		
b) The difference between			
•	n the latest finish time and		
d) The difference betweer	the latest finish time and	the earliest start time	
174. According to the staffi peaks during the	ng pattern of a software pr	oject follows the Rayleigh	n-Norden curve and
a) Detailed design	b) Coding & Unit testing		
c) Integration Testing	d) System Testing		



175. Arrange the following Identification c. A	lowing activities in Risk A Analysis	ssessment in the corr	ect sequence	a. Prioritization b.
a) b, a, c	b) b, c, a	c) a, b, c	d) c, a, b	
<ul><li>a) Using objective r</li><li>b) Developing a cul-</li></ul>	tic estimates & schedules methods of estimation ra ture of software reuse isource estimations	•		
177 Under SCM the a) By their respective c) In a central project		naintained b) By the appropria d) All of the above	te team	
178 Cleanroom Softv a) Formal Specificati	ware Development proce on b) Static Verifica	ess is based on ition c) Statistical Te	esting	d) All of the above
179. Which one of that a) Decision table	ne following is method is b) Structure English	not used in describing c) Finite auton		stem process  d) Binary tree
180. c from the relat a) Productivity=KLO c) Productivity=KLO	C/person-month	b) Productivity=KLO d) Productivity=KLO	-	onth
181. The goal of cod a) To reduce the cos c) Both a & b	t of testing b) T	o reduce the cost of n	naintenance	
182. Bottom of Form Top of Form Broad design of mod	n Hules & their relationship	s is called		
a) External design	b) Detailed design	c) Architectura	al design	d) Process design
183. The choice of the	ne Software Developmen	t Life Cycle Model to	be followed f	or a project
A) Initial Clarity of Re	•	B) Size of the Project		
C) Time Frame of the a) A, B & C only	e Project b) A, B & D only	D) Clarity on Technic c) A, B, C & D d)		
a) A, B & C Only	D) A, B & D Only	<b>c, A, B, C &amp; D</b> u).	A & D OIIIY	
184. The SDLC Mode a) Spiral Model	el most suitable for small b) Incremental Model		=	s rototyping Model
•	uential or Classic Life Cycl		I d) Prototy	ning Model



	lel of the softwa	are process considers	each process activity as a
phase a) Separate	b) Discrete	c) Both a and b opti	tions d) None of the above
<ul><li>187. Which of the follo</li><li>a) Well understood, c</li><li>b) Component based</li><li>c) Use of multiple tea</li><li>d) Project has high te</li></ul>	onstrained & m construction & ms each develo	odularizable requirem use of 4 GL	
188. In the Spiral mode a) The level of risk c) The cost incurred in		b) The progres	ess made in the current phase
189 uses programmers.	powerful devel	opment software and	I small, highly trained teams of
a) Prototyping	b) RAD	c) Coding	d) Modeling
190. Planning the mod a) Architectural Design		ructure & control related evel Design c) System	ationships between modules is called em Design d) All of the above
191. Designers should a) coupled, functional c) Cohesive, coupled	· ·	inable, cohesive	veakly designs
192. Use of global data a) Stamp Coupling c) Content Coupling	b) Comm	variables may lead to on Coupling I Coupling	0
193. Function oriented a) Data Flow Design c) Detailed Design	b) Structi	s consists of Iral decomposition he above	
194. Transform Analysi a) Afferent Branch c) Central Transform	b) Efferer		
195. The two questions	s "Are we buildi	ng the right product?"	" &"Are we building the product right?
a) Verification only c) Validation & Verification	ation respective	•	dation only fication & Validation respectively
196. Which of the follo a) Statement coverage c) Path coverage	b) E	hite box testing metho crror guessing Condition Coverage	nod



197. A Test case	e includes					
a) Input b) I	Expected outp	out c) Informat	ion of fund	tion under t	est <b>d) A</b>	II of these options
198. A stub is a	dummy verio	n of the	modu	le of the mo	dule under	testing
		b) Subordinate				
199. A driver is	a dummy ver	sion of the	mo	dule of the r	nodule und	ler testing
a) Superordina	te	b) Subordinate	c) Co	oordinate	d) All of th	ne above
200	_ exercises the	e system beyond	its maximu	ım design lo	ad	
a) Thread testir	ng	b) Stress Testing	c) Back to	back testing	g d) A	ll of the above
201. Presenting a) Thread testing	-	ts to different ve b) Stress Testing		•		e outputs is called d) All of the above
202 Which of t	he following i	s not a part of Pr	oiect Plan?			
	_	b) Personr	-			
c) Project Ment	toring Plan	d) Softwar	e Architec	ture Plannir	ng	
A) The initial e	effort estimate Adjustment Fa fort estimate	for estimation for both project ctor will always be will always be the b) Only A & B are	e the same e same for	e for both po both project	rojects ts	
	_				-	complex hardware
a) Organic		n operating proce ached	c) Embedo			pplication
	num time req activity graph		e project ca	an be estima	ited by con	sidering the
a) Shortest	b) Lor	ngest	c) Average	è	d) SPT	
206. PERT/CPM	1 cannot be us	ed for				
a) Scheduling o	f projects		b) Monito	oring & Cont	rol of proje	ects
c) Optimizing R	esource Utiliz	ation	d) Quality	y control of	products	
207. Democrat	ic team struct	ure is suitable for	projects			
a) With strict do		· ·	=	known requ	irements	
c) With researc	ch orientation	d) No	one of thes	se		
208	ensures th	nat a set procedu	re is follow	ved to make	any change	es to the software
						d) All of the above



-	ctivity	ment is b) Umbrella activity d) None of the above			
	dvanced Sys	tem Engineering stem Engineering		t <b>er Aided Software E</b> the above	ngineering
211. Requireme	ent phase is ι	usually done by			
a) System Analy	yst	b) System Administrato	or c) Sys	stem Engineer	d) All
	6.1 6.11				
		wing is not considered a	•	r of function point	
a) Number of in	-	b) Number of interface			
c) Number of fil	e	d) Number of output of	lata		
213. Cohesion is	s the concep	t which tries to capture	this		
a) Intra-Module	-		er-Module	d) Outer-Modu	ule
214. Functional	approach is	also known as			
a) Glass box tes	ting	b) Black box testing			
c) Input box tes	ting	d) Output box testing			
architecture	e while its equirements Encapsulation		orovides sys e changes in heritance, P	stems with stability, a	
applications	3.	steps do you think deve	elopers shou	uld take to create effi	cient compact
·		ment efforts on modelir	ng implemen	ntation mechanisms	
		throughout the develop	•		
•	_	until after system has b	•		
a) a, c	b) a, b	c) a., b, d		d) a, b, c	
		elements combine to fo			
a. Notation		iagram c. Pro	cess	d. View	
a) a, c	b) a, b	c) a, b, d		d) a, b, c	
<ul><li>a. To model syst</li><li>b. To provide a</li><li>c.To support sm</li></ul>	tem using Oo process for s nall-scale and	are aims of UML? O concepts oftware development I large-scale analysis and implementation mecha	_		
a) a, c	b) a, b	c) a, b, d	d) a,	c, d	
1 - 1 -	- ,,	-, -, -, -,	,,	•	



219. Towards		esign phase,	shoul	d be allocated to sourc	e code
a) Use cases		elationships	c) Models	d) Classes	
a) Design a p b) Create the	rototype e test cases plem domain	and produce pr	u should take in o	designing any project?	
<ul><li>a) Kinds of re</li><li>b) Surroundi</li><li>c) Set of all to</li></ul>	sources availa ngs in which s functionality r	g best describe ble to developi system operate equired of a systed to imple	stem	em domain is?	
you should a) Ignore class b) <b>Do more a</b> c) Write a de	d do? ss completely analysis to get efinition for th	a better unde	r <b>standing of wha</b> t is not very good	d to write definition fo	
<ul><li>a. Functionalis</li><li>b. Use case pr</li><li>c. Use cases o</li></ul>	ty of a use-cas ovide develop utline function	e has to be con	nplete from start s and operations tem	es and use case models to finish	s?
a) a, b, c		b, c, d	c) a, c,	<b>d</b> d	) a, c
a) Conceptua c) Set of actio	_	b) Organization d) State mach	<u> </u>		
225. Collabor <b>a) Organizati</b> c) Conceptual	<u>-</u>	•	ages on time scal factions	e	
226. State ch a) Organizatio machine	_	b) Conc	eptual design	c) Set of actions	d) State
227. In OOD a) Function	primary abstra <b>b) Cl</b>	action mechani ass	sm is c) Object	- d) Hierarchy	



228. Incremental model						
a) Delivers a system in a series of versions b) Works with an angulation and inhoritance to simplify flow of control						
<ul><li>b) Works with encapsulation and inheritance to simplify flow of control</li><li>c) Builds a bridge between user and developer</li></ul>						
d) Uses experimental software to better understand	d user requirements					
a, oses experimental solution to setter understall	a aser regaments					
229. Prototyping model						
a) Delivers a system in a series of versions						
b) Builds a bridge between user and developer						
c) Uses experimental software to better understan	nd user requirements					
d) Works with encapsulation and inheritance to sim	plify flow of control					
230. software re-engineering actually means revers						
maintenance elements of software architecture	or a computing systems include					
A. software components B.class diagrams						
C. connectors expressing relationships between soft	ware components					
D. E-R diagram	, and some point in the second					
a) A, B <b>b) A, C</b> c) A, C, D	d) A, B, C, D					
231. Project milestones are mainly divided in these	two parts					
a) DFD and SRS	b) Interface design and implementation					
c) Feasibility study and detailed design	d) Requirements and design					
232. Which is not part of testing?	og allumou tooting d\ Covilla tooting					
a) White box testing b) Black box testing	ng c) Inner testing d) Gorilla testing					
233. Which is not part of phases of software develo	nment					
a) High level design b) low level design	pmene					
c) Mid-level design d) Replication, delivery,	installation					
234. Which software development model incorpora	ites risk management?					
a) Water fall model <b>b) Spiral model</b>	c) Incremental model d) Object model					
235. Largest time is spent on which of the software						
a) Testing <b>b) Enhancement</b>	c) Bug fixing d) Analysis and design					
226 Simple SDLC contain						
<ul><li>236. Simple SDLC contain</li><li>a) Requirements, analysis, design, implementation</li></ul>	n testing					
b) Analysis, design, implementation, testing, deploy	<del>-</del>					
c) Analysis, design, implementation, testing, mainte						
d) Requirements, analysis, design, implementation,						
237. DFD is not a						
	b) Good guide to a system					
c) Representation of physical stream	d) All of the above					



<ul><li>a) Focuses on the or</li><li>b) Focuses on the ch</li></ul>	-	· · · · · · · · · · · · · · · · · · ·	
c) Provide indirect n			
d) All.			
239. Which is not a t	type of maintenance	e?	
a) Adaptive	b) Correctiv	e c) Perfective	d) Obsolesc
240. Adaptive Maint	tenance is		
a) To improve the sy	ystem in some way I	by changing its basic functi	onality
•	e due to changes in		
	undiscovered syste	m errors	
d) None of the abov	re		
241 Which of the fo	ollowing activities in	volves choosing a system s	tructure canable of satisfy
requirement Spe	=	volves choosing a system's	tructure cupuble of satisfy
a) Requirements An		sign c) Coding	d) Testing
242. Reliability in a s	software system can	be achieved using the follo	owing strategies, EXCEPT
	b) Fault tole	erance	
a) Fault avoidance			
<ul><li>a) Fault avoidance</li><li>b) Fault detection</li></ul>	d) Fault rect		
b) Fault detection	d) Fault rect	tification	
b) <b>Fault detection</b> 243. The Software D	d) Fault rect	tification cle covers activities from	ts Phase to Testing
b) Fault detection  243. The Software D  a) Feasibility Study t	d) Fault rect Development Life Cyc to Installation	tification cle covers activities from <b>b) Requiremen</b>	ts Phase to Testing tion to Software Retireme
b) <b>Fault detection</b> 243. The Software D	d) Fault rect Development Life Cyc to Installation	tification cle covers activities from <b>b) Requiremen</b>	ts Phase to Testing tion to Software Retireme
b) Fault detection  243. The Software D  a) Feasibility Study t  c) Requirements Phase	d) Fault rect Development Life Cyc to Installation se to Maintenance	tification cle covers activities from <b>b) Requiremen</b>	tion to Software Retireme
b) Fault detection  243. The Software D  a) Feasibility Study t  c) Requirements Phase  244. Identify the true	d) Fault rectored bevelopment Life Cycle to Installation se to Maintenance e statements about	tification cle covers activities from <b>b) Requiremen</b> d) Project Initia	tion to Software Retireme
b) Fault detection  243. The Software D a) Feasibility Study t c) Requirements Phase  244. Identify the true a) Processes usually c b) Processes provide	d) Fault rectorevelopment Life Cycle Installation se to Maintenance e statements about divide software development what	tification cle covers activities from <b>b) Requiremen</b> d) Project Initia using a process for softwa	tion to Software Retiremere
b) Fault detection  243. The Software D  a) Feasibility Study t  c) Requirements Phase  244. Identify the true a) Processes usually o b) Processes provide c) Processes are used	d) Fault rectored bevelopment Life Cycle to Installation se to Maintenance e statements about divide software development for what it o	cle covers activities from  b) Requiremen d) Project Initia  using a process for softwa elopment into phases to do at each phase of dev	tion to Software Retiremere development.
b) Fault detection  243. The Software D a) Feasibility Study t c) Requirements Phase  244. Identify the true a) Processes usually c b) Processes provide	d) Fault rectorevelopment Life Cycle Installation se to Maintenance e statements about divide software development what	tification  cle covers activities from  b) Requiremen  d) Project Initia  using a process for softwa elopment into phases	tion to Software Retiremere
b) Fault detection  243. The Software D  a) Feasibility Study t  c) Requirements Phase  244. Identify the true a) Processes usually o b) Processes provide c) Processes are used 1) a and c	d) Fault rectored bevelopment Life Cycle to Installation se to Maintenance e statements about divide software development for what do 2) a and b	cle covers activities from  b) Requiremen d) Project Initia  using a process for softwa elopment into phases to do at each phase of dev	tion to Software Retiremere development.
b) Fault detection  243. The Software D a) Feasibility Study t c) Requirements Phase  244. Identify the true a) Processes usually c b) Processes provide c) Processes are used 1) a and c	d) Fault rectorevelopment Life Cycle Installation se to Maintenance e statements about divide software development for what to 2) a and b	cle covers activities from  b) Requiremen d) Project Initia  using a process for softwa elopment into phases to do at each phase of dev  3) a, b and d	tion to Software Retiremere re development. relopment 4) a, c and d
b) Fault detection  243. The Software D a) Feasibility Study t c) Requirements Phase  244. Identify the true a) Processes usually o b) Processes provide c) Processes are used 1) a and c  245. Process visibility a) Defining clear cut p	d) Fault rectored by Fault rectored by Fault rectored by Fault rectored by Phases	cle covers activities from b) Requiremen d) Project Initia using a process for softwa elopment into phases to do at each phase of dev 3) a, b and d b) Producing docume	tion to Software Retiremere development.
b) Fault detection  243. The Software D a) Feasibility Study t c) Requirements Phase  244. Identify the true a) Processes usually c b) Processes provide c) Processes are used 1) a and c	d) Fault rectored by Fault rectored by Fault rectored by Fault rectored by Phases	cle covers activities from  b) Requiremen d) Project Initia  using a process for softwa elopment into phases to do at each phase of dev  3) a, b and d	tion to Software Retiremere re development. relopment 4) a, c and d
b) Fault detection  243. The Software D a) Feasibility Study t c) Requirements Phase  244. Identify the true a) Processes usually c b) Processes provide c) Processes are used 1) a and c  245. Process visibility a) Defining clear cut p c) Conducting review	d) Fault rectorevelopment Life Cycle Installation see to Maintenance e statements about divide software development for what do 2) a and b y is enhanced by phases es & checks	cle covers activities from b) Requiremen d) Project Initia using a process for softwa elopment into phases to do at each phase of dev 3) a, b and d b) Producing docume	tion to Software Retirement.  relopment  4) a, c and d  ents related to each phase
b) Fault detection  243. The Software D a) Feasibility Study t c) Requirements Phase  244. Identify the true a) Processes usually c b) Processes provide c) Processes are used 1) a and c  245. Process visibility a) Defining clear cut p c) Conducting review	d) Fault rectorevelopment Life Cycle Installation se to Maintenance e statements about divide software development for what do 2) a and b y is enhanced by phases as & checks	tification  cle covers activities from  b) Requiremen  d) Project Initia  using a process for softwa elopment into phases to do at each phase of dev  3) a, b and d  b) Producing docume  d) All of the above	tion to Software Retirement.  relopment  4) a, c and d  ents related to each phase
b) Fault detection  243. The Software D a) Feasibility Study t c) Requirements Phase  244. Identify the true a) Processes usually c b) Processes provide c) Processes are used 1) a and c  245. Process visibility a) Defining clear cut p c) Conducting review  246. Which of the fo	d) Fault rect bevelopment Life Cyc to Installation se to Maintenance e statements about divide software devel guidelines for what to 2) a and b y is enhanced by phases s & checks ollowing activities is ance	tification  cle covers activities from  b) Requiremen  d) Project Initia  using a process for softwa elopment into phases  to do at each phase of dev  3) a, b and d  b) Producing docume  d) All of the above  not considered as "Umbrel	tion to Software Retirement.  relopment  4) a, c and d  ents related to each phase
b) Fault detection  243. The Software D a) Feasibility Study t c) Requirements Phase  244. Identify the true a) Processes usually c b) Processes provide c) Processes are used 1) a and c  245. Process visibility a) Defining clear cut p c) Conducting review  246. Which of the fo a) S/W Quality assura c) S/W configuration	d) Fault rect bevelopment Life Cyc to Installation se to Maintenance e statements about divide software devel guidelines for what to 2) a and b y is enhanced by phases s & checks ollowing activities is ance management	tification  cle covers activities from  b) Requiremen  d) Project Initia  using a process for softwa elopment into phases to do at each phase of dev  3) a, b and d  b) Producing docume  d) All of the above  not considered as "Umbrel  b) Software Design  d) S/W Project Monit	tion to Software Retirement re development 4) a, c and d ents related to each phase
b) Fault detection  243. The Software D a) Feasibility Study t c) Requirements Phase  244. Identify the true a) Processes usually c b) Processes provide c) Processes are used 1) a and c  245. Process visibility a) Defining clear cut p c) Conducting review  246. Which of the fo a) S/W Quality assura c) S/W configuration	d) Fault rectorevelopment Life Cycle Installation se to Maintenance e statements about divide software development for what do 2) a and b y is enhanced by phases as & checks ollowing activities is ance management mary purpose of the mary purpose of the property of the p	tification  cle covers activities from  b) Requiremen  d) Project Initia  using a process for softwa elopment into phases to do at each phase of dev  3) a, b and d  b) Producing docume  d) All of the above  not considered as "Umbrel  b) Software Design	tion to Software Retirement re development 4) a, c and d ents related to each phase



248	. SDLC starts with	stage			
a) U	ser Requirement and Ana	alysis	b) Deployment	c) Testing	d) Design
	. The analysis phase take whereas the	s an app	proach to the syster	n, ignoring its inno	er workings
	gn phase takes an ain code	approach, makir	ng decisions on hov	v the model will b	e implemented
a) W	/hite box & Black box	b) Black b	ox & White box		
c) To	op-Down & Bottom-Up	d) Bottom	-Up & Top-Down		
	. The goal of is and to determine opportu			the system and it	s shortcomings
	Feasibility study	-			
	c) Systems definition				
251	. The last step in System	Development Li	fe Cycle is		
		o) Implementati		ing d	) Maintenance
252	. The phase	of the systems I	ife cycle contains p	eriodic evaluation	s and updates of
į	the system				
prel	iminary				
a) Ir	nvestigation	b) Sy	stems analysis		
c) Sy	ystems implementation	d) Sy	stems maintenanc	e	
253	. During the phas	e, the application	on is verified agains	t the requirement	S
a) A	Analysis	) Design	c) Testing	d) Imp	ementation
	. The type of software ma				product is called
	orrective Maintenance		daptive Maintenan		
c) R	egressive Maintenance	d) P	erfective Maintena	ince	
	. Because of the cascade process is known as	from one phase	to another, the mo	odel of software d	evelopment
a) E	volutionary model	b) Formal i	model		
c) W	/aterfall model	d) None of	the above		
256	. Prototype may be used f	or			
a) R	isk Reduction	b) Require	ements Elicitation		
c) U	ser Interface Design	d) All of th	ne above		
257	. RAD Model is high spee	d implementation	on of		
a) V	<b>Vaterfall Model</b>	) Spiral Model			
c) P	rototyping model o	l) Component A	ssembly model		
258					
a) M	laintenance <b>h) Pro</b> t	ntyning	c) Implementation	n d) Non	e of the above



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<ul><li>259. A requirement may be a description</li><li>a) Functionality to be provided</li><li>c) External interface</li></ul>			
260. DFD gives idea about flow of a) Processes, decisions b) Co			
<ul><li>261. Data Models do not consider</li><li>a) Attributes of the data object</li><li>c) Operations that act on the data</li></ul>	· ·	ships between da he above	ta objects
<ul><li>262. Notations used to specify the extended details of a software system include</li><li>a) I and II Only</li><li>b) III Only</li></ul>	I. Data Flow Diag	rams II. HIPO diag	
<ul><li>263. Formal specification language con</li><li>a) Syntax</li><li>b) Semantics</li></ul>		lations	d) All of the above
264. The software architecture is best a) Context Diagram b) Flow Ch		ructure Chart	d) Data Flow Diagram
265. Using a programmer a) Pseudo code b) Softwar	can detail the log e c) Context		d) Data flow diagram
<ul> <li>266. Which of the following is not true</li> <li>a) It shows the flow of control of a prog</li> <li>b) It is a tool for detailed design</li> <li>c) Data interchange is not represented</li> <li>d) It clearly separates various modules</li> </ul>	ram	t?	
<ul><li>267 involves modeling a systemal object oriented decomposition</li><li>c) Functional decomposition</li></ul>	em as a set of inte b) Procedural de d) None of the a	ecomposition	l units.
268. Typographical errors and/or incora) Logic errors b) Syntax errors			age is referred to as d) A bug
269. Testing of software falls after a) Designing b) Implementation	<del></del>	ployment	d) Coding
<ul><li>270. Changes made to the software to</li><li>a) Perfective maintenance</li><li>c) Adaptive maintenance</li></ul>	accommodate ch b) Regressive ma d) Corrective ma	aintenance	onment is called

271. Major changes made to software after long periods is also called software reengineering or



a) Perfective maintenance		b) Regressive mainte	nance	
c) Adaptive maintenance		d) Corrective mainten		
272. Function Point Count a) Platform & Technology c) H/W & Software Resource	·	b) Team Size d) Features & Function	onalities	
273. In COCOMO terminol the system being develo			perience & p	part familiarity with
a) Organic	b) Semidetache	d c) Embedo	ded	d) Application
274. The value of COCOMO	O cost driver attrik	oute for higher than ave	erage Progra	ammer Ability will
a) Greater than 1	b) Equal to 1	c) Less tha	an 1	d) None of these
275 And are gr a) Bar chart and DFD c) Class diagram and activit		which are used to illust b) ERD and Bar chart <b>d) Bar char and activi</b>		
276. Risk Assessment Table a) Risk Components		gorization by  c) Both a and b option	ns d) N	one of the above
<ul><li>278. Risks arising out of free</li><li>a) User characterization</li><li>c) Multisource estimations</li></ul>	b) Strong		ed by	
<ul><li>279. Automated SCM tools</li><li>a) Inconsistencies of SCIs</li><li>c) Instability of development</li></ul>		em of b) Concurrent a d) All of these o		
280. As per SEI CMM organ a) Level 1 b) Le	nizations which do evel 2	o not have any KPAs pre c) Level 3	esent & stab d) Level 4	le are considered at
<ul><li>281. In which of the follow role?</li><li>a. requirement capture</li><li>b. analysis</li><li>c. design</li><li>d. implementation</li><li>e. test</li></ul>	ring phases of use	-case driven process do	you think u	se cases have a
a) a, b, c b) a,	, b, c, d	c) b, d	d) a, b, c, e	e
282. Sequence diagram real Organization of objects	b) M	lessages on time scale		
c) Conceptual design	d) Se	et of actions		



		perspective and design takes place from			
perspective a) User, user <b>b</b>	) User, developer	c) Developer, user	d) Developer, developer		
284. The a) Design b) Deve	*	at ensuring software produ c) Testing	ct is as per requirements. d) Deployment		
<ul> <li>285. Polymorphism</li> <li>a) Organizes abstraction</li> <li>b) Builds a bridge between</li> <li>c) Delivers a system in a</li> <li>d) works with encapsul</li> </ul>	n een user and develop a series of versions	per ce to simplify flow of contro	ol		
286. Spiral model incorp a) True b	oorates risk manager ) False	ment			
287. Storage manageme a) True <b>b</b>	ent is not a part of ve	ersion management			
288. Data flow diagrams a) True b	s are part of design p ) False	phase of SDLC			
289. Which is an iterative for constructing softs		which the requirements are t	translated to "blueprint"		
a) Testing b		sis c) Design	d) Maintenance		
290. What manifests in algorithm is	the patterns of choic	ces made among alternative	ways of expressing an		
a) A data flow diagram	b) Coding style	c) A data dictionary	d) A flow chart		
	d strictly and strateg en requirements for	oval of defects before relea gic actions to provide confid r quality			
	=	ns is most likely to arise fro	m requirement		
specification process a) System integration tes c) Sub-system integrati	ting plan	<b>b) Acceptance test p</b> d) Module test plan	olan		
293. In project planning <b>a) Set objective or goal</b> c) Decision making	b) Do	evelop strategies and policion	es		



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294. Which of the foll	owing is not pa	•		
a) Planning		b) Customer communication		
c) Project documentat	ion	d) Engineering		
295. Pick up one of th a) Euivalence partitior c) Basis and testing	ing b)	ods given below that is p Boundary value analysis Debugging	part of white-box testing	
296. Following are the	e different step	s that is to be followed i	n design methodology arrange them	1
a) First level factoring	<b>b)</b> 1	factoring of input		
c) Restate the problem	d) I	Identifying the input and	d output	
a) a, b, c, d	b) c, d, a, b	c) a, d, c, b	d) a, c, b ,d	
297. COCOMO is an e	fort estimation	n model in terms of		
a) Cost	b) Person- Mo		d) None of the above	
298. Pick the odd one  a) Component assemb c) Incremental Model		b) Spiral Model d) Iterative Mod		
<ul><li>299. During Requirem include which of the a) User Interfaces</li><li>b) c) Hardware Interfaces</li></ul>	e following into b) S	-	ments of a software system does no	t
300. External Entities A) People a) Only A & D		agram may be Software Systems c) Only A, B & D	C) Hardware D) Databas D <b>d) A,B, C &amp; D</b>	es
301. Example of a Sen a) Data flow diagram			tionship Diagram d) All of the abov	ve
302. A system develop	oed to give end	users a concrete impres	ssion of the system capabilities is	
a) Semantics	b) Model	c) Prototype	d) Abstraction	
303. Planning the solu	tion to a progr	amming problem using a	a structured technique is called	
a) Coding	b) Compiling	c) Modeling	d) Design	
304. Conception & pla a) External Design c) Both a and b option	b) (	xternally observable cha User Interface Design None of the above	racteristics of a software is called	

305. A way of indicating the desired effect without establishing the actual mechanism



•		•		b) Data Abstraction d) None of the above			
306. The number & coa) Modularity	omplexity of b) Cohesior		ections betwee c) Coupling		les is an indicator of Abstraction		
307. The method of day a) Factoring	leriving the s b) Factor A				d) All of the above		
<ul><li>308. Which of the folion</li><li>a) There should be only</li><li>b) There should be at c) The sequence or only</li><li>d) All of the above</li></ul>	y one modu the most or	le at the to ne control a	p arrow between		es.		
309. A programmer n	nust follow t	he rules for	coding a parti	icular prograi	mming language. These		
	b) Iteration		c) Syntax	d) [	Documentation		
310 is the p	rocess of loc b) Correctin		eliminating pro c) Debugging	-	<b>Testing</b>		
311. Changes made to a) Perfective mainten c) Adaptive maintenar	ance	b) Re	d it beyond its egressive maint orrective maint	tenance	tionality is called		
312. COCOMO is cate a) Heuristic	gorizes as a b) Empirica	1	estimation c) Analy	•	d) None of the above		
<ul> <li>313. Which of the following is true as per Putnam model</li> <li>a) Staffing Pattern peaks at Coding &amp; Unit testing</li> <li>b) Schedule compression increases effort in proportion to fourth power</li> <li>c) Expanding the schedule gives extreme saving in effort</li> <li>d) All of the above</li> </ul>							
<ul> <li>314. RMMM is a Risk Management methodology which focusses on</li> <li>a) Risk avoidance by developing a risk mitigation plan</li> <li>b) Continuous risk monitoring throughout the project</li> <li>c) Actually managing the risks when they become a reality by contingency planning</li> <li>d) All of the above</li> </ul>							
315. A change reques a) Its technical merit c) Side effects		b) Cost & s	or chedule impac ese options	rts			
316. Software quality	managers a	re responsi	ble for				



a) Quality assurance	b) Quality p	olanning	c) Quality control	d) All of the above
<ul><li>317. Which of the foll</li><li>a. data inputted</li><li>b. GUI component</li><li>c. Another system</li><li>d. A printer</li></ul>	lowing are possibl	e actors?		
	b) A, B, C, D	c) A, B, D	d) A, C	
318. UML can be used a) True	d as a way to repro <b>b) False</b>	esent only OO so	oftware systems	
319. Use cases can be a) True	e included in any t b) False	ype of collabora	tion diagrams.	
<ul><li>320. Which of the folla</li><li>a) Finite resources</li><li>b) Inaccurate estima</li><li>c) Others are competed</li><li>d) None of the above</li></ul>	ites of cost and ting to do the job	me		
<ul><li>321.</li><li>a) COCOMO</li><li>c) Use case estimation</li></ul>		timating softwar nction point ana of the above		
322. Pick up odd one a) Component assemb c) Incremental model		ng b) Spiral mode d) Iterative mo		
<ul><li>323. Parts of design p</li><li>a) Correctness, robus</li><li>b) Correctness, robus</li><li>c) Flexibility, correctr</li><li>d) Flexibility, correctr</li></ul>	stness, efficiency, stness, efficiency, ness, robustness, e	flexibility, reusa efficiency, standa	a <b>bility</b> ard	
<ul><li>324. Which of the followard finite resources</li><li>b) Inaccurate estimate</li><li>c) Others competing to</li><li>d) None of the above</li></ul>	es of cost & time		ailure?	
<ul><li>325. An approved fea</li><li>a) Systems design</li><li>c) Systems developme</li></ul>		deliverable out o <b>b) Preliminary i</b> d) Systems ana	nvestigation	
326. Checklists, grid o	harts, and decisio	n tables are all t	ools used in the	step



a) Preliminary i c) Systems dev	=	<b>b) Systems analysis</b> d) Systems implementation	on
327. The prese a) Preliminary b) Systems de	investigation	depth during the <b>b) Systems analysis</b> d) Systems development	phase of the systems life cycle.
328. The SDLC		r small projects with unclea	r requirements is but not many
a) Spiral Model		Model c) Waterfall N	odel <b>d) Prototyping Model</b>
=	= -	ents sub phases in the corre C. Validation D. Elicita C. C c) D, C, A	ition
	ed CASE tools like PSL/Ps nts Documentation ts Analysis	SA do not help in b) Requirements Va <b>d) Requirements E</b> l	
331. The requal a) Feasibility s	study b) R	ocess has the following stag equirement analysis equirement definition	es, except
332. Concept a) Requireme	of Abstraction is used in nts phase b) D		g Phase <b>d) All of the above</b>
333. The numl		ules controlled by a module t c) Fan in	is called its d) Width
334. If two mo		cure across their interface the good of the coupling	
examined t	o evaluate module cohe clarations, function defir	nitions& calls b)	elements of a module is  Variable declarations  All of the above
336. The grapl a) Context Diag		d to represent the system a	
337. The value	e of COCOMO cost drive	r attribute for lower than a	verage Reliability requirement will
a) Greater than	b) Equal to	o 1 c) Less than 1	d) None of these
338. Example a) SRS	of Software Configuration b) Code	on Items (SCI) is c) User manual	d) All of the above



339. Top of Form Which o its maintainability?	f the following facto	ors of a Software Produ	ct may not contribute much t
a) Understand ability	b) Flexibility	c) Security	d) Testability
340. Your Answer: The Sof a) Feasibility Study to Insta c) Requirements Phase to N	llation	b) Requirements	Phase to Testing tion to Software Retirement
341. Any activity designed referred to as		n working condition, er	rror free, and up-to-date, is
a) Maintenance	b) Testing	c) Debugging	d) Coding
342. During theacquired and tested	phase of the syst	ems life cycle, the new	hardware and software are
a) Design b) Develo	pment c) Imp	lementation	d) Maintenance
<ul><li>a) Database design</li><li>c) Architectural design</li><li>344. The flow of data with</li><li>a) Data flow diagram table</li></ul>	d) Fun		owchart d) Decision
345. Formal specification to a) Set theory b) L			of the above
<ul><li>346. Using the name of a sexample of</li><li>a) Procedural Abstraction</li></ul>		ions in place of the sec	quence of instructions is an
c) Control Abstraction	d) Nor	ne of the above	
347. Providing a logical refrepresentation is	ference to the data	object without concerr	n for the underlying
a) Procedural Abstraction	b) Dat	a Abstraction	
c) Control Abstraction	d) Nor	ne of the above	
348. A module whose all e		ationship which involve	es both data and control flow i
a) Sequentially		nal c) Tempora	lly d) Procedurally
349. The afferent branch of	of the DFD ends at t	he	
a) Most Abstract Input		b) Most Abstract Outpu	ut
c) Middle of the central tra	nsform	d) All of the above	



<ul> <li>350. I. Object-oriented software development creates better programs but is less efficient to use</li> <li>II. Objectoriented software development is more efficient than traditional methods.</li> <li>III. OOP is a process that organizes a program into objects that contain both data and the processing operations necessary to perform a task</li> <li>a) I and II are correct</li> <li>b) II and III are correct</li> <li>c) I and III are correct</li> <li>d) I, II and III are correct</li> </ul>
351. The if-then-else construct is an example of the a) Sequencing <b>b) Selection</b> c) Iteration d) All of the above
<ul> <li>352. Proper program layout by proper usage of proper use of indentation, blank spaces, blank lines, parentheses improves</li> <li>a) Efficiency of the program</li> <li>b) Size of the program</li> <li>c) Maintainability of the program</li> <li>d) Reliability of the program</li> </ul>
353. Static verification & validation is applied to a) SRS b) Design c) Code d) All of the above
354. Static testing involves a) Code Analysis b) Structural Analysis c) Data Flow Analysis d) All of the above
356. Statistical Testing is used for a) For statistical software's only c) Reliability estimation b) Only uncovering defects d) Efficiency estimation
<ul> <li>357. Which of the following is NOT true about software testing</li> <li>a) It follows a bottom up approach</li> <li>b) Testing is planned after the coding phase</li> <li>b) Testing only establishes presence of defects</li> </ul>
358. Which of the following is NOT true with regard to Testing & Debugging a) Testing includes debugging b) Debugging includes retesting c) Testing only establishes presence of defects d) Debugging repairs the program defect
359. Purely black box testing would be used at which of the following levels? a) Unit testing b) Module testing c) Integration Testing d) Acceptance Testing
360. Black box testing is more useful in locating a) Functional Errors b) Performance Errors c) Interface Errors d) All of these options
361. Test Data includes  a) Set of inputs  b) Set of expected outputs  c) Information of function under test  d) All of these options
<ul> <li>362. Testing strategies can be</li> <li>a) Top – down testing, Bottom – up testing</li> <li>b) Thread testing, Stress testing</li> <li>c) Back – to – back testing</li> <li>d) All of above</li> </ul>

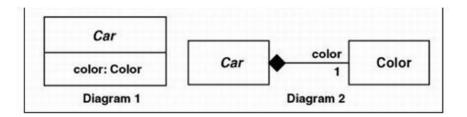


363	3. A stub is a dumn	ny version of the	<u></u>	module of the	module unde	er testing	
a)	Superordinate	b) Suboro	dinate	c) Coordi	nate	d) All of th	e above
364	I. Testing done wit	h real data is ca	lled	•			
a)	Data testing	b) Unified	d testing	c) Alpha t	esting	d) Beta tes	sting
365	5. The following are	e the testing stra	ategies exce	ept			
	Top-down testing	_	_	c) Stress testin	g d) V	erification te	esting
366	6. An example of a	n Empirical Softv	ware estima	ation technique is			
a)	СОСОМО	b) FPA	c) [	Delphi	d) Halstea	d`s Software	e Science
367	7. The Lines of Cod	e (LOC) size do r	not include				
a)	Compiler Directive	s b) [	Declaration	c) Comm	ents	d) All of th	e above
368	3. Repeatable level	as per CMM mo	odel is				
a) L	evel 1	b) Level 2	c) l	evel 3	d) Level 4		
369	9. The collection of	computer prog	rams, proce	edures, rules and a	associated do	ocument and	d data is
,	called						
a)	Software	b) Hardware	c) E	Both d) N	lone		
370	). A context diagran	n contain					
	Only one process			one process			
C) A	At least one process	a) r	None				
	. The spiral model						
a)	Development type None	projects b)	Enhanceme	nt type project	c) Bo	oth	d)
	None						
	2. Three major fact		-				
	Cost, Correctness, Cost, Quality, Corr		•	Cost, Schedule, Re Cost, Portability, I	-		
~,	2001, Quanty, 2011				,		
	B. Data flow can ta	·		r Filo d\ Evtorn	al Entity to D	rococc	
	Process to Process A, B, C	·	c)	·	d) A ,B, D	100633	
	<ol> <li>Match the level that is the level of the lev</li></ol>	-		3) Integration 1	esting 4) U	nit Testing	
	Client Needs		_		d)Cc	_	
a)	1-a, 2-b, 3-c, 4-d	b) 1-d, 2-b, 3-c	, 4-a	c) 1-a, 2-b, 3-d,	4-c d)	1-a, 2-c, 3-	b, 4-d
375	5. The first step in t	the project plan	ning is:				
	Size of the product		=	b) Select team	organization	al mode	



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- c) Determine the Project constraints
- d) Establish objectives and scope



- a) 1: An aggregation, 2: A composition.
- b) 1: An attribute, 2: An aggregation.
- c) 1: An aggregation, 2: An attribute.
- d) 1: An attribute. 2: A composition.
- 376. Phase containment of errors means.
- a) Detect errors to the closest point of errors.
- b) Stop errors during software projects deployment.
- c) Stop errors during software projects coding
- d) None of the above.
- 377. The most commonly used model in today's development is
- a) Waterfall model
- b) Spiral model
- c) Iterative waterfall model
- d) None of the above.
- 378. What is "Customer must have at least a Pentium machine to access this software" in context of Software Requirements,
- a) Assumption
- b) Objective
- c) Business Problem
- d) All of the above
- 379. For a Leave Application System, an "Employee" can use the system to request for leaves and a "Manager can approve/reject the leaves. The data will be stored within a "Leave database" as part of this system. In this scenario, identify the valid actors from the following for this system.'
- i) Employee
- ii) Manager
- iii) Leave Database
- iv) Leave Application System

- a) None of the above
- b) i, ii
- c) iii, IV
- d) All of the above
- 380. A timing constraint placed on the system or the use of a specific language during development, is an example of
- a) Functional requirements

b) Non-functional requirements

c) Requirements definition

- d) None of the above
- 381. What is a Requirement definition?
- a) What software provides.
- b) Requirements in SRS
- c) What customer wants?
- d) All of the above
- 382. Which of the following is a tool in design phase?
- a) Abstraction
- b) Refinement
- c) Information hiding
- d) All the above



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<ul><li>383. The data flow diagram</li><li>a) Depicts relationships bet</li><li>b) Depicts functions that tr</li><li>c) Indicates how data are t</li></ul>	tween data objects dep ansform the data flow		en data objects
d) d) Both b and c			
384. Content testing uncova) Syntactic errors	ers b) Semantic errors	c) Structural errors	d) All of the above
385. Which of these are sta a) SEI R b) SPICE	andards for assessing so c) ISO 900:	·	nd c
386. Methods of Project Mo a) Time sheet b) Ea	onitoring are arned value method	c) Design Constraints	d) Both a & b
387. Risk projection attemp a) Likelihood and cost c) Likelihood and consequer		wo ways  b) Likelihood and impa d) Likelihood and expo	
388. Effective risk managen a) Risk avoidance b) Ris	ment plan needs to add sk monitoring	ress which of these issu c) Contingency plannin	
389. To quantify a risk we na) Determine the possibility c) Determine consequences	y of risk happening		<b>b)</b> Both a and b. d) None of the above.
390. Deliverable for a softw	vare Project is		

a) Source Code b) Design Documents

c) Requirement Documents and Test Plans d) All of the above

391. Scoping is done during,

a) Proposal Stage b) Requirements gathering stage

c) Design Stage d) Coding Stage

- 392. A software engineer is measuring the quality of a software system. He is concerned with the 'reliability' and the "validity' of his measurements. Which of the following is true?
- a) Reliability refers to the extent to which the measurement represents the actual quality of the system and validity refers to the consistency of the quality measurements
- b) Reliability refers to the consistency of her quality measurements and validity refers to the extent to which the measurement represents the actual quality of the system.
- c) Reliability refers to the accuracy of her quality measurements and validity refers to the extent to which the measurement follows a quality standard.
- d) Reliability refers to the concurrency of her quality measurements and validity refers to the extent to which the measurements are consistent with established norms.
- 393. Quality attributes are the overall factors that affect



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a) Run-time behaviour	b) System design	c) User experien	ce <b>d) All of the above</b>				
<ul><li>394. Testing is a</li><li>a) Process of executing a</li><li>c) Process of testing softw</li></ul>		nt of finding an error	b) Process of removing error d) All of the above				
396. Black box testing chea) Incorrect function c) Both a & b	b) Interface errors	S					
397. A method of estimat a) WBS Estimation b)	=	nctionality required fo c) FP Estimation estin					
<ul><li>398. Scheduling begins w</li><li>a) Risk identification</li><li>c) FP Estimation</li></ul>	b) Process of d) COCOMO	•					
399. Aggregation represe a) Is a relationship b)		c) Composed of	relationship d) None of above				
400. Modules X and Y op a) Sequential b)	erate on the same in Communicational	put and output data. T c) Procedural	he cohesion is said to be d) Logical				
401. Estimates are made a) Size b) Cost	in a project primarily c) Both a an		the above				
402. SPMP document is made at the end of a) <b>Project planning</b> b) Project monitoring c) Project control d) None of the above							
403. While gathering the requirements on OO way (using RUP UML), the very first thing we should do it							
<ul><li>a) Start gathering functional requirements</li><li>b) List down all the Users of the System (called as Actors)</li><li>c) Start gathering non-functional requirements</li><li>d) Create Test plan</li></ul>							
404. What is the solution a) Improve technical skil c) Learn a tool for require	s	ne" in requirements ga b) Seek customer feed d) None of the above	_				
405. Which of the follow a) Scenarios are instance c) A use case is an instance	s of a use case.	= =	ralizations of many use cases.				

406. Which of the following is true about a Build?



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- a) A Build represents an operational version of a system or a part of the system that demonstrates a subset of the capabilities provided in the final product.
- b) A Build constitutes an integral part of the iterative development lifecycle and provides review points.
- c) Each Build is placed under configuration control in case there is a need to roll back to an earlier version when added functionality causes breakages or when there is otherwise some form of compromised Build integrity.
- d) All of the above

a) Basic COCOMOc) Complete COCOMO

407. What is the	Cost of quality, Fa	ailure cost, prev	ention cost	c, and appraisal o	ost?
a) 120, 35, 37, 50	•	95, 120, 40		7, 13, 45	d) 120, 13, 45, 40
408. Prevention	cost iv) Efforts spe	ent on reviews a	and testing		
a) a-iv b-iii c-ii d-	l b) a-iv	b-ii C-iii d-I	c) a	-ii b-iv c-i d-iii	
Top of Form					
409. Software Eng	gineering is conce	rned with	<u> </u>		
a) Process	b) Methods	c) To	ools	d) All of the al	oove
410. Static verification					
a) Logic errors	b) Syntax errors	c) Perforn	nance erroi	d) Codin	g standard violations
411. Which facto	r among the follo	wing has least e	effect on th	e testability of a	software?
a) Decomposabil		ciency		tand ability	d) Observability
412. Identificatio existence of de	•	cause anomalo	ous behavio	ur in the outputs	s indicating the
a) Static Testing	b) Wh	ite Box Testing	c) Black	Box Testing	d) Interface testing
413. In unit testir	ng which of the fo	ollowing is the s	trongest te	sting strategy?	
a) Statement cov		nch Coverage		on Coverage	d) Path coverage
415. Selection of called	test paths accord	ling to definition	n& usage o	f different variab	les in the program is
a) Path coverage t	esting	b) Conditi	on Coverag	e testing	
c) Data Flow Tes	ting	d) Branch	Coverage T	esting	
416. Compared to	o small team proj	jects large team	projects ar	e	
a) More sensitive	to programmer a	bility	b) less se	nsitive to progra	mmer ability
c) Not sensitive t	o programmer al	bility	d) None c	of these	
	on of COCOMO d stems by consider	="	_	· -	of estimates of its s various sub

b) Intermediate COCOMO

d) None of the above



d) None of the above

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418 Structural approa	nch is also known as			
a) Glass box testing	b) Black box te	sting		
c) Input box testing	d) Output box t	esting Top of Form	l	
419. Ability of a softw	ware to perform stated	function under sta	ated condition for a stated pe	riod of
a) Efficiency	b) Robustness	c) Reliability	d) Correctness	
420. Among the folloa) Stamp Coupling	owing types which is the b) Common Coupling		e form of coupling Coupling d) Control Coupling	upling
421. Which of the fo a) <b>Data type</b>	llowing would NOT app b) Decision		n a flowchart? d) Processing	
422. All of the follow a) Iteration	ring are control structur b) Selection	res used in structur c) Sequence	red programming, EXCEPT <b>d) Go to</b>	
423. In, the te component to der a) Black box	rive test data		edge about the structure of a d) None of the above	
<ul><li>a) Client (Presentation</li><li>b) Client (Application</li><li>c) Client (Data Mana</li></ul>	omponents of a thin clien) –Server (Data Manag n Processing) – Server ( ngement) –Server (Appl n Processing) – Server	gement, Applicatio Data Management ication Processing)	n Processing) :) )	
	d contains the feature of b) Prototype method		d) None	
426. Which of follow a) <b>SRS, Design, Codi</b> c) SRS, Design, Testing	-	ware engineering l b) Design, Coding d) Coding, Testin	g, Testing, SRS	
427. Which is the mo	ost commonly used deb b) Back tracking	ougging approach? c) Cause elimina	tion d) None of the above	
<ul><li>a) Dependability, usal</li><li>b) Maintainability, d</li></ul>	characteristics of a soft bility, reliability, robust ependability, efficiency aintainability, visibility,	ness , usability		



429. Enough time will be left at the end we rushed through the		
Through it! is worth the e	<del></del>	
The same word)		·
a) Coding b) Design c) Tes	ting d) None of the a	bove
430. Who should perform the validation	n tost?	
a) Software developer	b) Software user	
b) c) A group of developers and users	-	
, , , , , , , , , , , , , , , , , , , ,	,	
<ul><li>431 Find the activity, which is not part o</li><li>a) Controlled change</li><li>b) Storage</li><li>the above</li></ul>		oding standard d) None of
400 T .:		
<ul><li>432. Testing</li><li>a) Installs guilt</li><li>b) Is punishment</li></ul>	c) Is to find erro	rs d) None of the above
a) ilistans gunt b) is pullisinhent	c) is to find en o	a) Notice of the above
433. Which is more important?		
a) Product b) Process	c) Quality	d) None of the above
a) Coding b) Testing	_, the longer it will take to g c) Design	et done. d) None of the above
a) County b) Testing	c) Design	a) Notice of the above
435. Verification is to check		
a) Whether we are building the right pro	oduct	
b) Whether we are building the product	right	
c) Neither of the above		
d) None of the above		
436. Pick up the correct sequence of pr	OCESSES	
a) Requirements, Analysis, Test case de		
b) Requirements, Analysis, Design, Tes		
c) Requirements, Test case design, Ana	lysis, Design	
d) None of the above		
127 A software well-		
<ul><li>437. A software quality assurance activ</li><li>a) Coding</li><li>b) Formal technical rev</li></ul>		d) None of the above
438. In what manner, coding and testin	g are done	
a) Top-down b) Bottom-up	c) Cross-sectional	d) Adhoc
439. Which of the following is generally		y document
a) Problem descriptions	b) Project name	
c) Feasible alternative solutions	d) Data-flow diagrams	



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440. The initiation of a systems in	vestigation may result from		
a) An analysis investigation	b) A manager'	's formal reque	est
c) Scheduled system review	d) All of the at	oove	
441. Which of the following is not a) Inadequate user involvement c) Size of the company		n	
442. "The probability of failure free for a specified time" is the defi	inition for		
a) Quality b) Reliabilit	c) Operability	d) None of	the above
443. The four icons used in building a) Flow, Source, Store, Process c) Flow, Process, Source/Destination	b) Flow, Proce	ess, Source, Sto ocess, Destinat	
<ul><li>444. Which of the following is (are</li><li>a) Application generates</li><li>c) Screen generators</li></ul>	e) not a tool for Application Prot b) Third generation d) Report generator	language	
445 All of the following tools are u a) Structured English b) De	sed for process description exce cision tables c) Pseud		Data Dictionaries
446. Which of the following activia) File conversion b) Pro	ities does not belong to the Impl ogram testing c) User t	<del>-</del>	hase of the SDLC? d) All of the above
<ul><li>447. Which of the following is not a) The user and systems personnel</li><li>b) Steps must be taken to phase c</li><li>c) Documentation should be empty</li><li>d) The non-machine components</li></ul>	I must work closely together out the old system bhasized		nent life Cycle?
<ul><li>448. Benchmarking is used</li><li>a) To select computer systems</li><li>c) For application proto-typing</li></ul>	b) To maintain files d) For system accep	•	ondition
449. Which is the first phase of th a) Design b) Prototyp	·	odel? d) Requirei	ment
<ul><li>450. What is the purpose of use c</li><li>a) Requirements of capture</li><li>b) Define how the software syste</li><li>c) Describe what the user expects</li></ul>	m will be used		

451. With their correct characteristics:

d) Make clear what the stakeholders needs are



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- Y1: Risks are assessed and activities put in place to reduce the key risks
- Y2: Specific objectives for the phase are identified
- Y3: The project is reviewed and the next phase of the spiral is planned
- Y4: A development model for the system is chosen which any can be of The generic models
- a) X1-Y3 X2-Y1 X3-Y2 X4-Y4

b) X1-Y2 X2-Y3 X3-Y4 X4-Y1

c) X1-Y2 X2-Y1 X3-Y4 X4-Y3

- d) X1-Y3 X2-Y2 X3-Y1 X4-Y4
- 452. Indicate what information is provided by Functional requirements?
- X1: The constraints on the services or functions offered by the system such as Timing constraints
- X2: How the system should behave in particular situation
- X3: The constraints on the development process, standards
- X4: How the system should react to particular inputs
- a) X2, X4
- b) X1, X2, and X4
- c) X1, X3
- d) X2, X3, and X4

- 453. Function point is
- a) A pointer to a function
- b) A point where the function is written in a code
- c) A method of estimating the amount of functionality required for a program
- d) A function named "point"
- 454. A system version
- a) Is an instance of a system deployed at the client side
- b) Is an instance of a system that differs in some way from other instances
- Should either include new functionalities or should be intended for a different hardware platform
- d) Is created to fix reported faults as part of development process
- 455 What is synchronization control in configuration management?
- a) It governs which software engineer have the authority to access & modify a
- b) Particular configuration object
- c) It helps to ensure that parallel changes performed by two different people don't overwrite one another
- d) It synchronizes two different system versions to form a single versions
- e) It helps to synchronize the source code files to form deployable version
- 456 The currently known containment effectiveness of faults introduced during each Constructive phase of software development for a particular software product is Ratio of (Actual project duration) to (estimated project duration)
- (Number of pre-release Defects) to (number of pre-release Defects) to (number of pre-release Defects + number of post release Defects)
- (Number of phase i errors) to (number of phase i errors + number of phase i defects) (Number of failure) to (Execution time)



457 SRS is maintaine a) Software design ba	d in configuration envi	ronment as b) Software developr	ment haseli	ne	
c) Software artefact's		d) Software product baseline			
458 Following is the a) Requirement metric	SCM audit tool	c) Source Code	d) C	Design Document	
459 Delphi method ca) Functional point and c) PERT model using e	alysis	b) SLOC express d) Decomposition		of cost estimation	
460 Validate that the	e functions meet starte	d requirements or not i	is called as		
a) Unit testing	b) System testing	c) Integration Testing	g d) Δ	Acceptance Testing	
•	ean by incremental test b) Black box testing		g d) I	Independent testin	g
462 Verification show a) Requirements	uld be performed for _ b) Design	c) Code construction	d) A	All of the above	
463 Validation is mos	stly used to determine	the	of the f	inal	
	b) Consistency	c) Completeness	d) C	Quality	
464. Quality control p a) Preventive costs		c) Failure costs	d) None	of the above	
465. Who should be in a) Customer	nvolved in determined b) Management	<del>-</del>	d) A	All of the above	
466. Which of the follo	owing is an attribute of b) Product	Quality? c) Standard	d) Policy		
467. The system desig a) Program and trainir	•	diately followed by o c) Standard			
468. Resource plannin out in	g, audit planning, estin	nation, scheduling are t	:he some of	f the tasks carried	
	b) System design	phase c) Definition	n phase	d) Evaluation	
469 System reviews ar a) Quality control	nd software testing are b) Quality assi		audits	— d) None of the	
ahove	•	•			



470	is done v	without execu	ıting the code.		
a) Registration	b) Unit		c) System	d) Sta	tic
471. Which of the folloa) Statement coverag c) Decision/condition	e	vhite box test	ing technique? b) Equivalence I d) Multiple cond	_	ge
472. Which of the follo	owing task is no	ot performed	bv v & v manage	ment?	
a) Create the software	=	e periorinea	b) Conduct the		review of v & v
c) Support managemer	=	l reviews	d) Conduct in-p	_	
473. A standard must	ho				
a) Measurable, Attain		h) Sn	—— nart, Measurable	and Time-ho	und
b) Measurable, Achiev		•	proved, Availabl		
474 \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		doude of ICO	20002		
474. Which are the fo				0.0001 ISO 0	006 ISO 10011
a) ISO 9000, ISO 9001 c) ISO 9000, ISO 9001,					006, ISO 10011 004, ISO 10054
475. Cost of quality in			<del>_</del>		
a) Preventive, Corrective			b) Preventive, d		ntrol
c) Preventive, appraisa	I & failure		d) None of the a	ibove	
476. AQL stands for?					
a) Allowable quality le	evel	b) Al	located quality le	vel	
c) Acceptable quality le	evel	d) Al	lowed quality lev	el	
477. Quality assurance	e is a function r	esponsible fo	r		
a) Controlling quality	b) Manag	ging quality	c) Inspec	tions d) Rer	moval of defects
478.	is used to nerf	orm structure	ed analysis and to	n document th	ne result
a) DFD b) UN		COCOMO	=	one of the ab	
			,		
479. Reverse engineer	ring of data foci	uses on			
a) Database structure				ፄ 2 d) No	one of the above
480. System Test will i	not include				
a) Approach	) Risks c) S	uspension an	d Resumption cri	iteria d) l	None of the above
481. As series of defin	able, repeatabl	e and measu	rable tasks leadir	ng to useful re	sult is called
a) Program	b) Process	c) Activity	d) Control	ler	
482. The first step in p	oroject planning	g is to _			
a) Determine the budg			etermine the proj		ts
c) Establish the objective					



<ul> <li>483. Which of the following is a cha</li> <li>a) Includes test cases for all composition</li> <li>b) Exhibits strong coupling between</li> <li>c) Implements all requirements in t</li> <li>d) Incorporates source code for des</li> </ul>	nents nits modules he analysis model	cision?	
484. Which of the following charact a) Low coupling b) High		n? Modular	d) All of the above
<ul> <li>485. Which of the following is a disa</li> <li>a) Reduces technical know-how for</li> <li>b) Increases degree of control</li> <li>c) Increases vulnerability of strateg</li> <li>d) Increases dependency on other of</li> </ul>	future innovation ic information	g?	
486. If a linear process models all st called	eps come after finishing	g of a step the	n that model
a) Spiral b) Prototype c)	Water fall model	d) None o	f the above
487. Cyclamate Complexity method a) White box b) Black box	comes under which of c) Green box	the following d) Yellow	=
<ul><li>488. Which of the following provide</li><li>a) Motivation</li><li>c) Conflict management</li></ul>	es the foundation for tea b) Organizational de d) Individual develo	evelopment	ent?
489. Which of the following is a key a) Good skills b) Good design	to effective software en	_	d) None of the above
<ul><li>490. Estimation for the satisfaction</li><li>a) Feasibility study</li><li>c) Requirements capture</li></ul>	of the identified user no b) Requirements ev d) None of the abov	olution	as
<ul><li>491. Translating the algorithm into a the SDLC</li><li>a) Debugging</li><li>b) Coding</li></ul>	a programming languag		
492. Who designs and implement day a) Programmers b) Project manage		iters d)	Database administrators
493. The de a) Feasibility assessment c) System evaluation		ntification	go forward or not
494. Actual programming of softwa	re code is done during t	he	step in the SDLC



	Maintenance and Evaluation Analysis	<ul><li>b) Design</li><li>d) Development and Documentation</li></ul>
	5. Evolutionary software process models _ Are iterative in nature	
•	Can easily accommodate product require	ments changes
	Do not generally produce throwaway syst	_
	All of the above	
49	6. Which of the following is not a part of t	esting?
a) '	White box testing b) Black box test	ing c) Inner testing d) Gorilla testing
49	7. Quality assurance	
a)	Focuses on removal of defects before rele	ease
b)	Is a set of planned and systematic actions	to provide confidence that a product or service will
	satisfy given requirements for quality	
	Is to check the system for its interface err	ors
d)	None of the above	
49	8 is the chain of activ	ities that determines the duration of the project
a)	Object points b) LOC	c) Lines of code d) Critical path
	9. Debugging is a consequence of	
•	An unsuccessful test	
	An error in design	
•	A successful test	
a)	A metric that describes the degree to whi	ch a software product meets its requirements
	0. In object-orientation, polymorphism me	eans
a) '	There can be many objects in the design	
b)		
c)	Many ways can be instantiated of a class	
d)	Objects can implement the same method	in many ways
50	1. The spiral model of software developm	ent
a)	Ends with the delivery of the software pro	oduct
b)	Is more chaotic than the incremental mod	del
c)	Includes project risks evaluation during ea	ach iteration
d)	All of the above	
50	2. The objective of software project plann	ing is to
a)	Convince the customer that a project is fea	sible
b)	Enable a manager to make reasonable est	timates of cost and schedule
c)	Make use of historical project data	
d)	Determine the probable profit margin price	or to bidding on a project



	3. Which of the fo Documentation	llowing is not a section b) Reviews and		SQA plans recommended by IEEE? t d) Budget
	<ol> <li>Which of the fo Change control</li> </ol>	•	art of software config Statistical quality cor	uration management? atrol d) Version control
505 a)	•	s are in the program (	development life cycl c) 6	e (PDLC)? d) 10
506	ō.	is a measure of in	dependence of a mod	dule or component?
a)	Cohesion	b) Coupling	c) Loop coupling	d) Loop cohesion
507	7. The purpose of	requirement phase is		
	Го freeze requirem	= =	b) To understand	l user needs
c) T	To define the scope	e of testing	d) All of the abov	re
508	3. A modular desi	gn has		
		w coupling and high a	bstraction	
-	=	w coupling and low al		
	-	v coupling and high a		
-		gh coupling and high		
a) b) c)	Sufficient underst Sufficient underst Sufficient underst	the analysis phase is tanding of the probler anding of the probler anding of the probler anding of the probler	e <b>m to write a design s</b> m to write a formal de m to suggest a solutio	escription of it. on (or solutions)
510	D. Corrective main	tenance is related to		
	Making the syster			
		ult that could not be	found during testing	
	_	n work in new enviro		
d)	All of the above			
511	1. Testing is done	with the objective of		
a)	Finding new erro			ors in the software ove
512		good estimate of the	= -	esting (Assume 10 tests Per day), vare over the Next week? (Assume
a)	0.0275	b) 0.5987	c) 0.0769	d) 0.9500
513	3. A requirements	specification is		
	•	nings that the propose	ed software ought to	do
b)	A precise and ma	thematical list of thir	ngs that the proposed	d software ought to do



c) d)	A formal list of things that the proposed software must do  A list of software and hardware resources needed for completing the proposed system							
51 a) b) c) d)								
	5. Assuming that the tests are representative of Reliability of a software system that has had 1 0.95 b) 0.9 c) 0	0 failures in 200 test cases.						
51	6. A critical task is one with							
a)	Minimum slack time b) Maximum slack time	e c) No slack time d) None of the above						
a)	<ol> <li>Which of the following is identified as critical Adopting SDLC configuration management</li> <li>Both 1 and 2</li> </ol>	l for success in software development process? b) Adopt Continuous risk management d) Choice 2 only						
a) <b>b)</b> c)	process improvements	nged organizational requirements or identified						
	<ol><li>Which testing methods are used by end-use</li><li>White Box testing b) Alpha and Beta testing</li></ol>	rs who actually test software before they use it? c) Black box testing d) Trial and Error testing						
a) b) c) <i>i</i>	O. What do you mean by non-functional requirements Requirements definition A timing constraint placed on the system or the Development None of the above							
a)	<ol> <li>The project plan should be regularly revised Yes</li> <li>It cannot be changed, it is to be followed</li> </ol>	during the project. b) No d) It is made only once at the start of project						
·	<ol> <li>A program's control flow structure indicates</li> </ol>							

- a) Correct program
- b) The sequence in which the program's instructions are executed
- c) High-level language programming
- d) All of the above



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	<ol><li>Bar charts and a Project Plan</li></ol>	•	• .	al notation which are u	
a,	r roject r ian	b) Troject dep	chacheres	c) i roject schedule	d) Froject Mak Analysis
	4. Which factor is n	_	to software	crisis?	
a) I	arger problem size	S	b) S	kill shortage	
c) l	ow productivity im	provements	d) N	lone of the above	
52!	5. Spiral mode				
a) I	s an example of exp	oloratory progra	amme		
b)	Is characterized by	the assessmer	nt of manage	ement risk items	
c)	Both 1 and 2				
d)	None of the above				
526	6. Cohesion is				
a)	Measure of quality				
b)	Concept related to	testing			
c)	Understand ability				
d)	Measure of closen	ess of the relat	ionships bet	ween the system's co	mponents
52	7. Which term defi	nes the process	of project co	ompliance with policie	s and procedures?
a) (	Quality control	b) (	Quality assur	rances	
c) (	Quality audits	d)	Quality cont	rol management	
528	8. Which of these t	erms apply to id	dentify qualit	ty standards and how	to satisfy them?
	Quality projections			=	· · · · · · · · · · · · · · · · · · ·
529	9. Acceptance test	plan is			
a)	Most likely to arise	e from the requ	iirements sp	ecification process	
b)	Most likely to arise	from the Syste	m integratio	n	
c)	Both 1 and 2				
d)	None of the above				
530	O. Visibility of desig	n means			
	Efficient design	<u></u>	b) L	— ess complex design	
-	Good quality, consis	tent document		Ione of above	
532	<ol> <li>Project quality m</li> </ol>	nanagement inc	ludes		
	=	=		at determines policies	and responsibilities of a
h) i	Performance quality	, control			
c)	Error detection	CONTROL			
d)	None of the above				
532	2. Important distin	ction between t	:he spiral mo	del and other softwar	e process model is

a) Explicit consideration of planning next phase



c) **Both 1 and 2** 

d) None of the above

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b)	Explicit consideration of Validation
c)	Explicit consideration of Risk Assessment and Reduction
d)	Explicit consideration of Objective setting
53	3. Capability maturity model
a)	Gives description for software process
b)	States what activities are necessary for success
c)	Describes how activities are to be performed
d)	Compare essential difficulties of software
53	4. Validations is to check
a) '	Whether we are building the product right b) Whether we are building the right product
c) <sup>-</sup>	The methodology of software development d) The methodology of software testing
52	5. Which lifecycle model would you use for developing a commercial web site that requires
<i>J</i> J.	About 8 months of effort from a team of 6 people?
a)	Opportunistic <b>b) Waterfall</b> c) Incremental d) Spiral
53	6. Deliverables are usually milestones but milestones need not be deliverables
	True b) False c) May be true d) None of the above
52	7. The execution of every possible test case is called as
	Static analysis b) Dynamic testing c) Structural testing d) Exhaustive testing
aj	Static analysis by Dynamic testing cystructural testing uj Exhaustive testing
53	8. Configuration Management is not related with
a)	Controlling changes to the source code
b)	Choice of hardware configuration for an application
c)	Controlling documentation for an application
d)	Maintaining versions of software
53	9. Which of the following statement is correct?
a)	The project schedule is usually represented a set of charts showing the work.
b)	The project schedule is usually represented as a set of charts showing the activities
	Dependencies and staff allocations
c)	The project schedule is usually represented as a set of charts showing the work breakdown and
	activities dependencies
d)	The project schedule is usually represented as a set of charts showing the work Breakdown,
	activities dependencies and staff allocations
54	0. Which is true about regression testing?
a)	Regression testing is carried out if the system underline is an upgraded or corrected Version
h)	Regression testing checks that there is no side effect after changes



541	Which.	of the	following	o is true	ahout	integration	testing?
341.	VVIIICII	oi tiie	IOHOWII	ig is ti ue	about	IIILERIALIOII	testilis:

- a) Integration testing aims to find out the errors related to various module interfaces
- b) Integration testing is a kind of testing, which is carried out while constructing or integrating the system
- c) Integration testing is a kind of testing, which is carried out after constructing or integrating the system
- d) Both 1 & 2

542. Which of the following is not a queued message? a) WM_TIMER b) WM_QUIT c) WM_COMMAND d) None of these					
543. Which of the follo	owing is not a resou b) Dialog box Tem		c) Html docume	nt	d) None of these
544. Which of the follo	owing the resource b) Html document		alog templates		d) All of the above.
545. Which function is a) Equal to	s used to compare t b) EqualRgn	_	? mpareRgn		d) CmpRgn
546. Which of the folloa) WM_COMMAND	owing is non queen b) WM_QUI	_	c) WM_TIMER		d) All of the above
547. Which function is used to convert white to black and black to white? a) Convert b) Invert c) Insert d) None of above					
548. Which API is use a) Bible b) St		ch the bitr c) Patblt	nap? d) None o	f above	2
549. Which of the fol a) Bitmap b) Di	lowing is a resource alog box template		nl document	d) All	of the above
550. By default polygo a) Dot-dash		c) Transpar	ent	d) No	one of the above
551. Begin thread pres a) Winuser.h	sent in which heade b) Window's		ocess's	d) No	one of the above
552. What function to a) Stroll ()	o stretch the bitma <sub>l</sub> b) Bit blt	<u>-</u> '	etchable ()	d) Bi	tmap
553. Which of the fol	lowing not Virtual k b) VK NEXT	key? c) VK	UP	d) No	one



	Post quit message ()	
c) Dispatch message () d)	Translate message ()	
<ul><li>555. To achieve a good design, different m</li><li>a) Weak cohesion and low coupling</li><li>c) Strong cohesion and low coupling</li></ul>	b) Weak cohesion and hig	
<ul> <li>556. Spiral model</li> <li>a) Is an example of exploratory programm</li> <li>b) Is characterized by the assessment of ritems.</li> <li>c) Both 1 and 2</li> <li>d) None of the above</li> </ul>	_	
<ul> <li>557. Cohesion is</li> <li>a) Measure of quality</li> <li>b) Concept related to testing</li> <li>c) Understand ability</li> <li>d) Measure of closeness of the relationshi</li> </ul>	ps between the system's com	ponents.
558. The data items that are exchanged be a) Design phase b) DFDs c)	etween the different functions ER Diagram d) Data Structu	·
559. Which of the following software deve a) Water fall model <b>b) Spiral model</b>	-	
560. Design phase will usually bea) Bottom-up <b>b) Top-down</b>	 c) Random d) 0	Centre fringing
561. Software engineering principles are based a) Error correction b) Error prevention		d) None of the above
562. Which of the following are SDLC proca) Waterfall b) V-shape c)		the above
<ul> <li>563. Deployment of a system refers to</li> <li>a) Activities performed in system testing</li> <li>b) Implementing the design into executab</li> <li>c) The transition of the system from its d</li> <li>d) None of the above</li> </ul>		erational phase.
<ul><li>564. Please match the Spiral model sector</li><li>X1: Objective setting</li><li>X2: Risk assessment and reduction</li><li>X3: Development and validation</li></ul>	s: (X-Y)	



X4: P	lanning with their correct ch	naracteristics:					
	Y1: Risks are assessed and activities put in place to reduce the key risks						
	pecific objectives for the ph	•					
	he project is reviewed and t		e cniral ic nlanned				
	• •	•	•	ao ganaria madala			
	development model for the	=	· · · · · · · · · · · · · · · · · · ·	=			
•	1-Y3, X2-Y1, X3-Y2 X4-Y4	•	Y2, X2-Y3, X3-Y4 X4-				
b) c	) X1-Y2, X2-Y1, X3-Y4 X4-Y3	d) X1-	Y3, X2-Y2, X3-Y1 X4-Y	<b>'4</b>			
565.	The requirement should sp	ecify					
	hy <b>b) What</b>		d) All of the abo	ove			
F.C.C	V. Chana Madal						
	V Shape Model						
-	uilds the throwaway versior		,				
	dds risk analysis, and 4gl RA						
c) Is	s a variant of the Waterfall	that emphasizes the	e verification and val	idation?			
d) N	Ione of the above						
	Just as the entry point to a rogram is(Win M		nction main(), the en	try point to a Windows			
568	The three main Windows li	hraries are	,&	(Kernel.32,			
	Jser32, GDI32)	braries are	· — — —	(\\circlis2)			
·	30132, 00132)						
569.	The size of Unicode charac	ter is bits. (32)					
570.	Create Window () function	sends the	message. (WM_C	CREATE)			
571.	Update Window () function	sends the	message. (WM_	PAINT)			
572.	Post Quit Message () functi	on posts the	message. (WM	I_QUIT)			
573.	Get Message () function re	trieves a message fr	om the	(Message queue)			
574.	Translate Message () functi	on is used for	translation. (Keyb	ooard)			
575.	Window procedure functio	n is a	_ function. (CALLBAC	K)			
	TA program can call its own Message)	n window procedure	e by using the	function. (Send			
578.	Dispatch Message () function	on passes the MSG s	structure back to	(Windows)			
579.	The very first message that	a window procedu	re receives is	(WM_CREATE)			
580.	Register Class () associates	a window procedur	e to the	. (window class)			



	verything that happens to a window is relayed to the in the form of message. Indow Procedure)
582	API is used for sub classing. (Set Window Long() )
583	API is used for character translation of keystrokes. (Translate Message())
	lessage occurs when the user clicks an item on the menu bar or presses a men (WM_INITMENU)
585	API is used to kill a modal dialog box. (End Dialog() )
	, and are windows resources defined in a .Res file. (Any see of these –ICON / CURSOR / STRINGTABLE / DIALOG / MENU / BITMAP)
587	API is used to set the text of an edit control. (Set Window Text() )
	And are GDI objects.  y two from Brush / Pen / Region / Font / Palette / Bitmap)
	hen there is no message in the queue, Peek Message () function returns rue b) False
590. S	ystem keystrokes are generated for keys typed in combination with the key. (Alt)
	ystem keystroke messages are and (WM_SYSKEYDOWN, I_SYSKEYUP)
	ne virtual key code is stored in the parameter of the WM_KEYDOWN message. aram)
	ne repeat count field is stored in the parameter of the keystroke messages. ram)
	Function is used for checking the type of information available in clipboard. (Is board Format Available ())
595	Function is used to open the clipboard. (Open Clipboard())
596	Function is used to clear the clipboard. (Empty Clipboard ())
	and are windows resources defined in a .Res file. (Any see of these -ICON / CURSOR / STRINGTABLE / DIALOG / MENU / BITMAP)
598	Function is used to clear the clipboard. (Empty Clipboard())



599. Get Message () returns, w (0) (window class)	/hen it retrieve	WM_QUIT messa	ge form the messagqueue.		
600. Window messages are defined	in both window	s.h and	header files. (winuser.h)		
601. The repeat count field is stored (IParam)	in the	parameter of t	:he keystroke messages.		
<ul> <li>602. Software acts with a dual role a</li> <li>a) Application software and embedo</li> <li>b) Embedded software and Product-</li> <li>c) Software product and Environme</li> <li>d) Application software and Data sto</li> </ul>	led software line software ent or applicati	on tool for softwa	are product development		
<ul><li>603. Software Engineering encompa</li><li>a) Process, Methods, and Tools</li><li>c) Methods, Tools, and People</li></ul>	b) Pro	cess, Product, and ople, Process, and			
604. Which one of the following is correct list of prescriptive process model?  a) Waterfall, Incremental, Spiral,  b) Waterfall, V-shaped, Prototyping c) Prototyping, Spiral, Adaptive S/w development  d) Waterfall, Incremental, V-shaped					
605. Customer needs important fund a) Waterfall b) Prototyping		implemented at e	earliest? d) RAD		
606. Risk analysis and 4gl RAD proto a) Spiral b) Prototyping					
607 model is a variant of the W	/aterfall model	, which also emph	asizes the verification and		
a) Waterfall b) Prototyping	; c) I	ncremental	d) V-shaped		
<ul> <li>608. Requirement should specify</li> <li>a) Hardware required to complete the</li> <li>b) Resource requirement</li> <li>c) A precise and mathematical list of provide</li> <li>d) Description of how to develop the</li> </ul>	of things that d	escribes what pro	posed software should		
609. Stakeholders are asked to rank	-	uirements & discu	ss conflicts in priority in		
stage of requirement engineering a) Conflict resolution b) Elabo		c) Specification	d) Negotiation		
610. Use-cases are defined from	point of view				



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a) An actor's	b) A function's	c) An actor and fu	nctions	d) None of the above			
611. Product requirements, Organizational requirements, & External requirements are example of a) Domain requirements b) Non-functional requirements c) Functional requirements d) None of the above							
<ul> <li>612. Which of the following models collectively form the design model?</li> <li>a) Data design, Architectural design, Interface Design, Component Design</li> <li>b) Data design, Architectural design, System design, Program design</li> <li>c) Architectural design, Interface Design, Functional design, Class design</li> <li>d) None of the above</li> </ul>							
<ul> <li>613. Which of the following is FALSE statement?</li> <li>a) Abstractions allows designers to focus on solving a problem without being concerned about irrelevant lower level details</li> <li>b) Modularity is ability to understand the software by examining its components independently</li> <li>c) Control hierarchy represents the procedural aspects of the software</li> <li>d) None of the above</li> </ul>							
<ul> <li>614. Coupling is</li> <li>a) Qualitative indication of the degree to which a module focuses on just one thing</li> <li>b) Qualitative indication of the degree to which a module is connected to other modules &amp; to outside world</li> <li>c) Both 1 &amp; 2</li> <li>d) None of the above</li> </ul>							
c) Whether we are	building the right p building the product g is an testing ap	t right oproach, which is u	d) Wheth	ner we are building the product ner we are testing the product software is being developed d)Acceptance testing			
617 is condua) Beta testing	ucted at developer's b) Alpha testing	site by end-users c) White box testi	ing d)No	one of the above			
618. Unit testing is a) A Black box test c) An User Acceptar	ing	<b>b) A White box t</b> d) Not a testing	esting				
	he maximum numbo ogram has been exe			quired to guarantee that every			

b) Cyclamate complexity

d) None of the above

618. Reliability is indicated by following attributes -

a) Independent Program paths

c) Graph Matrices



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a) Maturity, faul	t tolerance,	recoverability		b) Understand	d ability, learnability,
b) Suitability, accuracy, compliance				d) All of the al	oove
619. Warranty v a) Prevention co d) Appraisal Cost 621. Match the f	ost I	kample of <b>b) External failu</b> e) All of the abov		c) Intern	al failure cost
a) Internal failure b) Appraisal Cost c) External failur d) Prevention co a) a-iv b-iii c) a-l b-iii c-ii	e cost e cost st c-ii d-I	iv) Efforts spent o b) a-i	n pre-deliv on quality	ery defect fixing planning, tools and testing	
622. There are	- levels of C b) 3	MMi c) 1		d) 6	
a) Hardware & so b) Framework to c) Only the list of d) None of the a 624. Pick up the a) Project estime b) Project estime	oftware req hat helps to if risks ident bove correct sta hates should hates should	make reasonable	e estimate wing during proj at the end	ect developmer of the project	cost and schedule
		t management is -			
<ul><li>a) Prediction ar</li><li>c) Recognition ar</li></ul>		on	•	cion and reaction of the above	n
626. Software p a) A phase	-	agement is v rella activity		C milestone	d) None of the above
<ul><li>a) Gantt charts</li><li>b) Gantt chart s</li><li>c) CPM is used</li><li>d) Critical path</li></ul>	are often us hows both p for finding to is the longes	wing is FALSE STA sed for displaying planned and actua total project cost st path through th	the projec al schedule ne network	information diagram	
628. In Software	e project ma	nagement, 4 Ps h	ave to be	managed in follo	owing order -

a) Project, People, Product, Process

c) People, Product, Process, Project

b) Process, Problems, People, Product

d) Product, People, Process, Problem



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629. Scheduling begins with a) Process decomposition		cation Estimation	c) COCOMO estimation			
<ul><li>630. One of the limitations</li><li>a) Evaluation effort is smal</li><li>c) Does not provide phase-v</li></ul>	l ,	•	ates verification f the above			
<ul> <li>631. Which one of the followard</li> <li>a) Deliverables are usually</li> <li>b) All milestones are delived</li> <li>c) Deliverables &amp; Milestoned</li> <li>d) None of the above</li> </ul>	milestones but nerables		not be deliverables			
632. Risk assessment is dor a) Analysis Phase b) De	ne in esign Phase	c) Coding Phase	d) All phases of the project			
<ul><li>a) Probability of occurrence</li><li>b) No. of resources on proj</li></ul>	<ul> <li>633. Risk score (or Risk Exposure) is a product of</li> <li>a) Probability of occurrence and Impact on project should the risk occur</li> <li>b) No. of resources on project and daily per person rate</li> <li>c) Probability of occurrence and total No of resources</li> <li>d) None of the above</li> </ul>					
<ul> <li>631. Risk assessment Proce</li> <li>a) Risk identification, Treat</li> <li>b) Identify problems, Resol</li> <li>c) Risk Identification, Asse</li> <li>d) None of the above</li> </ul>	ing problems, Issu ve problems, Rep	ort problem	g, Tracking, Control			
<ul> <li>632. In Risk management, t</li> <li>a) To convert risk data into</li> <li>b) To shift the impact of th</li> <li>c) To reduce probability and</li> <li>d) To define roles and resp</li> </ul>	o decision making e threat to a third nd impact	information				
633. Software requirement a) Functional	s should not be b) Ambiguous	c) consiste	ent			
634. The decision logic is example a) Data flow diagram	xpressed by b) Flow chart	c) Structu	re chart			
635. Validation is to check a) Whether we are building	g the product righ	t				

b) Whether we are building the right productc) The methodology of software development



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a) I b) (	Correct the undiscovered errors						
a) I b) I	37. Analysis phase is  Not to actually solve the problem  Not to determine exactly what must be done to solve the problem  To move quickly to program design						
a) \$	638. Object models a) Should include details of the individual objects in the system b) Are part of design?						
c) /	c) Are natural ways of reflecting the real world entities that are manipulated by the system?						
a) I b) I	639. The three classes of interface errors are: a) Interface misuse, interface misunderstanding, timing errors b) Interface misunderstanding, interface coupling, data transfer errors c) Interface coupling, timing errors, interface parameter errors						
	. Find the activity which i Controlled change	s not part of version n b) Storage mana	_		c) Coding standard		
	. Which is the non-techni Program age	ical factor of maintena b) Programming style	ince cost?	c) Program	n validation		
a) / b) / c) /	. Software quality assura A multi-tiered testing stra A measurement and repo An activity that is applied . Most common but least Brute force b) Bac	tegy rting mechanism throughout the softwa					
a) <i>i</i> b) <i>i</i>	. Equivalence partitioning A white-box testing metho A black-box testing metho Neither white-box nor bla	od od	d				
	. Doing what is said one we have the said one we have a second to be a second to	would do, is the definite) O) Quality	tion for c) Software	e plan			

646. The typical elements of the requirements engineering process are ii) Software design

c) i, iii and iv

b) ii and iii

i) Problem analysis

a) i and iv

iv) External behaviour specification

iii) Analysis of staffing needs

d) i, ii and iii



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647 In object models, information hiding conceals
a) Operations b) Attributes c) Methods d) State and behaviour

#### Fill in the blanks:

648. \_\_\_\_\_\_ is an iterative process through which the requirements are translated into 649. A "blueprint" for constructing the software.

#### Answers the followings in brief:

- 650. Explain the concept of black box.
- 651. What are the qualities of software?
- 652. Give the various steps in prototyping.
- 653. What are the various fact-finding Techniques?
- 654. What are the types of decision tables?
- 655. What are the structures of Structured English?
- 656. Give a brief note on acceptance testing.
- 657. Define coupling and cohesion.
- 658. What is maintenance? Explain about various types of maintenance.
- 659. Differentiate between Decision Tree and Decision Table.
- 660. Give the coding guidelines.
- 661. Give the debugging approaches.
- 662. Why Software doesn't wear out.
- 663. Explain about Dos and Don'ts of good coding style.
- 664. Give the contents of SRS document.
- 665. Explain briefly about SEI CMM.
- 666. What is feasibility study? Explain about various aspects of feasibility.
- 667. Define normalization and explain about first three normal forms. 668. What is changeover? What are the types of changeover?
- 669. Differentiate between Black Box and White Box testing
- 670. Explain about Interview as a Fact Finding technique
- 671. What are the various factors that influence software cost-estimation?
- 672. Write a short note on structured charts.
- 673. Explain about the various concepts of a system.
- 674. Give Salient features of CASE tools.
- 675. Explain about various stages of software Development according to classical life cycle.

#### Answers the followings in detail:

- 675. Compare and contrast the two life cycle models viz. Waterfall and Spiral models. (Mention at least three distinct aspects).
- 677. State the importance of requirements management in a software development
- 678. Discuss and compare the coupling and cohesion in software design
- 679. Discuss the trade-off between error checking execution time / memory space overhead.
- 680. How can the overhead be reduced or eliminated?
- 681. Give some reasons for using global variables than parameters. What are the potential Problems created by the use of global variables?
- 682. Explain why it is very difficult to produce a complete and consistent set of requirements.



- 683. Discuss the differences between object-oriented and function-oriented design strategies
- 684. Explain why maximising cohesion and minimising coupling leads to more maintainable Systems 685. Show using a small example, why it is practically impossible to exhaustively test a Code.
- 686. List at least five distinct tests to exercise the various features of the PowerPoint Software used for slide preparation and projection.
- 687. Develop a high level data flow diagram for an airline reservation system
- 688 Develop test plan for the library management system (List at least five test cases). 689. Rewrite the following requirements so that they may be objectively validated. You may 690. Make any reasonable assumptions about the requirements.
- a) The software system should provide acceptable performance under maximum load Conditions
- b) Structured programming should be used for program development
- c) The software must be developed in such a way that it can be used by inexperienced Users.
- 691. Model the data processing which might take place in an electronic mail system that can Send and receive messages from remote computers.
- 692. Discuss the advantages of incremental model as compared to water fall model.
- 693. Can a program be correct and still not be reliable? Explain
- 694. Discuss how you would approach the top-down design of a software system.
- 695. Discuss at least three reasons that would highlight the importance of software Maintenance.
- 696. Compare and contrast the white-box and black-box testing methods. 697. Discuss the importance of documentation in software development. 698. Discuss the pros and cons of the COCOMO model for cost estimation 699. Make a structure chart for the following:
- 700. Given an array of integers, arrange them in ascending order using quick sort method.
- 701. Develop a software review checklist for use by the designer and the implementer. What issues are important to each of these roles?
- 702. Develop an architecture and also flow diagrams (up to 2 levels) for the following:

  "Consider the automation of the transaction at the registration counter of a post-office. A

  Scanner is provided to capture the "from" and "to" addresses from the envelop. The clerk uses your software to issue receipts to the customers. This is expected to reduce the Waiting time at the counter."
  - Suppose that a 50-KDSI (Thousands of delivered source instructions) application Program can be purchased for Rs. 2,000,000/-. Assuming that your in-house programmers Cost Rs.30, 000/- per programmer month (including overheads), would it be more cost Effective to buy the product or to build it?
- A Manager decides to use the reports of code inspections as an input to the staff Appraisal process. These reports show who made and who discovered program errors. Is This ethical managerial behaviour? Would it be ethical if the staff were informed in advance? That this would happen? What difference might it make to the inspection process?
- Apply a "stepwise refinement process" to develop three different levels of procedural Abstraction for developing a cheque writer that, given a numeric rupees amount, will print the amount in words that is normally required on a cheque.



- 703. Derive a set of test cases for a code which sorts arrays of integers. Draw a flow graph for an algorithm of your choice and derive its cyclamate complexities
  - A university intends to procure an integrated student management system holding all Details of registered 1students including personal information, courses taken, and Examination marks achieved. The alternative approaches to be adopted are either Buy a database management system and develop an in-house system based on this database.
- a) Buy a system from another university and modify it to local requirements
- b) Join a consortium of other universities, establish a common set of requirements and
- c) Contract a software home to develop a single system for all of the universities in the Consortium. Identify two possible risks in each of these strategies.
- 704 Consider the error messages produced by MS-DOS or UNIX or WINDOWS operating System. Suggest how they might be improved.
- 705. Develop at least two levels of procedural abstraction for implementing the savings bank Transactions in a banking system.
- 706. Draw a flow graph for the following and find its cycloramic complexity: Given 1000numbers, arrange them in ascending order using any one of the sorting methods.
- 707. Oxford College of Commerce is an undergraduate college. The college receives sufficiently large number of application for admission to FY, SY and TY B. Com. Classes.
- 708. The college has decided to computerize its admission procedure. The standard admission Procedure requires adhering to the norms set by concerned government agencies, the University and the college administration. The procedure also involves disbursing admission Forms at a cost, collecting duly completed forms, preparing merit lists and admitting the Students as per norms, notifying student, collecting fees, preparing and submitting reports to concerned authorities. By carefully studying the case you are required to solve the following:
- a) Draw a context level and first level DFD b) Identify the various reports required
- 709. Discuss the advantages and disadvantages of using the "antibugging" technique to provide built-in debugging assistance to uncover errors.
- 710. Contract a software home to develop a single system for all of the universities in the Consortium. Identify two possible risks in each of these strategies.
- 711. Design test cases for the following problem: Given a quadratic equation, solve it to find the roots.
- 712. Draw the context level diagram for a payroll system
- 713. Prepare Context diagram for the saving bank deposit and withdrawal system in a nationalized bank. Also draw the first level DFD for the same.
- 714. Rational College of Commerce is an undergraduate College. The college receives sufficiently large number of applications for admission to FY, SY and TY. B com classes.



c) Risk Analysis

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The college has decided to computerize its admission program. The standard admission Procedure requires adhering to the norms set by concerned government agencies, the

Forms at a cost, of As per norms, no concerned author You are required	collecting duly comp otifying students, co rities	pleted forms, pre	dure also involves di eparing merit list and eparing and submitti	d admitting students
(i)Entities: a) Processes	b) Data flo	ws	c) Data Stores	
715. Which SDLC Mo	odel is best suited v	when only part/s	ome of the requirem	nents are known at the
a) Waterfall Model	b) Increme	ntal Model	c) Prototype Mode	el d) Spiral Model
716. In case of Bank "Deposit" Use case		elationship betw	een "Opening of Acc	count" use case and
a) Uses b) E	xtends	c) Includes	d) None of th	ne above
_	tity that is extemal nefits from the inte Jse case	-	directly interacts wi	
<ul><li>718. Review activity</li><li>a) Black Box Testing</li><li>719. Equivalence Pe Technique.</li><li>a) Static Testing</li></ul>	b) Static Te	esting c) Dynami	c Testing d) Whitechnique, for	te Box Testing _ kind of Testing d) Red Box Testing
a) Static resting	b) White Box res	iting c <sub>f</sub> bi	dek box resting	d) Ned Box resting
720. In the Project Na) Time	Management Triang b) Scope	·	eter is most importa Il of the above are e	
721. Quality assurar a) Process improvem c) Removal of defects	ent	b) Testing d) All of th		
722. Refers to the su a) Adaption	upport phase of sof b) Enhancement	-		ons
723. Which one of the a) Software re-engine c) Software maintenance	neering	process of factor b) Configuratio d) software Ref	n management	ıle?
724. Which of the fo	= -	not part of Projed b) Effort estima	=	?

d) Risk Response Development



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725. Enhances performance 8. Function	•		•
a) Re-design b) Re-engineering	g c) N	/laintenance	d) Post checking
	ge of requireme quirement analy plementation		ocess?
727. Which of the following meetings is	not part of Scru	ım?	
a) Product review meeting	· · · ·	review meeting	
c) Sprint planning meeting	d) Sprint	retrospective mee	eting
728. In Scrum, the prioritized work to b	e done is referr	ed to as	
a) Sprint planning b) Product	oacklog c) S	print retrospectiv	e d) Standup meetings
729. Software risk impact assessment so a) Planning resources oost & schedule c) Business, technology & process	b) N	Marketability oost	
<ul><li>730. The process starting with the term</li><li>a) Top-down integration</li><li>c) Module integration</li></ul>	inal modules is b) Bottom-up i d) None of the	integration	
731. To check whether we are developi requirements or not. This is known a			the customer
a) Validation b) Quality Assura	nce c) V	erification/	d) Quality Control
732. A reliable system will be one:			
<ul><li>a) That is unlikely to be completed on s</li><li>c) That is likely to be fault-free</li></ul>	dtedule	•	ely to cause a failure to be liked by the users
733. To test a function, the programme	r has to write a	passes it test data	3.
a) Stub b) Proxy	c) Driver		lone of the above
734. When a new testing tool is purchase	sed.it should be	used first by:	
a) A small team to establish the best way	y to use the too	ı.	
b) Everyone who may eventually have s	ome use for th	e tool	
c) The independent testing team			
d) The vendor contractor to write the in	nitial scripts		
735. Pick up IEEE the best definition of	software engine	eering?	
a) Set of computer programs. Procedur operation of data processing.	es and possibly	associated docun	nent conoemed with the
b) Software engineering is Design Codir	ng Developmen	t	

c) Software engineering implement a single independent function



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produce							
economical and reliable software that will perform n efficiently on real machine							
736. Agile methods a a) Predictive	are known as b) Adaptive	c) Process C	)riented	d) Short	term process meth	ods.	
737. The identification	on of stakeholders	and user cla	sses in requir	rements e	ngineering is carrie	d out	
a) Elicitation	b) Analysis	c) Ver	ification	d) Sp	ecification		
738. Which among the following gives a chronological record of relevant details about the execution of tests?							
a) Test incident repo	ort b) Test log	g c) Tes	t summary re	eport	d) None of the abo	ove	
739. What is not included in a System Requirement Specification Document? a) Scope b) Specific Requirements c) Design Solutions d) References							
740. Project risk factor is considered in							
a) Spiral Model b) Waterfall Model c) Prototyping Model d) Iterative enhancement Model							
741. Formal Reviews of an individual product used to evaluate correctness based on its input criteria are							
a) Inspections	b) Checkpoint re	eview	c) Testing		d) Walkthrough		
742. Which of the below listed processes is not part of Project Planning a) Identify Constraints b) Identify Algorithms c) Identify Risks d) Identify Milestones							
743. Which Agile principle can help in chaordic situation?							

a) Incremental Delivery

b) Continuous Integration

c) PMO Policy

d) Latest Technology

744. Which of c the Unified Process model for software development?

a) Inception phase

b) Elaboration phase

c) Consumption phase

d) Validation phase

745. Which of the following is not one of Hookers core principles of software engineering practice?

- a) All design should be as simple as possible, but no simpler
- b) A software system exists only to provide value to its users.
- c) Pareto principle (20% of any product requires 80% of the effort)
- d) Remember that you produce others will consume
- 746. Which of the following is valid reason(s) for collecting customer feedback concerning delivered software? a) Allows developers to make changes to the delivered increment
- b) Delivery schedule can be revised to reflect changes



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c)	Developers can ide increment	entify dwang	es to incorpor	ate into nex	t	
d)	All of the above					
	7. Which of the fol Customers	lowing is not b) End-user	_	sidered a pla c) Sales p	-	oftware process? d) Project managers
	3. Does an organize for all the projects	•	one lifecycle each project		For each do n	nain
	). Find the odd one Step wise refinem		ollowing: b) Structural d	esign	c) Informa	ation hiding
a) b)	. Corrective main Improve the syste Correct the undisc Make changes in t	m in some wa covered error	ay without cha s	inging its fui	nctionality	
a) b)	<ol> <li>Analyse is phase Not to actually sol Not to determine To move quickly to</li> </ol>	ve the proble exactly what	must be done	to solve the	e problem	
			Ba	sic		
	From the followin Quality assurance	g which quali b. Quality c	ity deals with i		• •	f the software product? d. None of the above
Q.2 <b>a. Y</b>			mprised of ma	ny smaller s	ub-systems is	s known as, Functions.
For 1) E 2) F 3) E 4) [	State if the follow scheduling a project of the profession of the	ect, it is neces oject tasks int sks and correl e required fo	sary to: to smaller, malate them.	nageable fo	rm.	
Q. 4	· · · · · · · · · · · · · · · · · · ·	manager is e	ngaged with s	oftware mai	nagement act	tivities. He is responsible
c. C	for Project planning. Communication am None of the above	ong stakehol	ders		oring the proentioned abo	-

Q.5 Software is not considered to be collection of executable programming code, associated

libraries and documentations.



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a. True	b. False				
Q.6 Which quality dea a. Quality assurance		=	quality of the softv c. Quality Efficie	=	
Q.7 Choose the correct Statement 1: Umber throughout the proposition of the statement 2: softwactivity.  Statement 3: softwactivity.	rella activitie rocess. vare quality a	es are independ	ent of any one fran	manageme	·
a. Only statement 1 is	correct.	b. S	tatement 1 and st	atement 2	are correct .
c. Only statement 3 is		d. S	tatement 1 and sta	atement 3 a	ire correct.
Q.8 The interviews, wh	nich are held	between two p	ersons across the	table is	
	n-structured		roup	d. One-to-	
Q.9 Which of these pria. To describe what the b. To establish a basis c. To define a set of red. All mentioned above Q.10 When elements another element a a. Functional Cohesion c. Sequential cohesion Q.11 The spell check for another spell check f	e customer r for the creat quirements t re of module ar nd so on, it is eature in wo	requires ion of a software that can be valid e grouped becan s called b. Communicat d. Procedural con	re design dated once the sof use the output of ional cohesion ohesion	tware one elemen	
a. True	b. Fals	se			
Q.12 CASE tools cannot capability of get a. True		ted with other		ctionality, p	process activities and
Q.13 Which tool consists simulation tools? a. Web development to c. Programming tools	ools	nming environn <b>b. Prototyping</b> d. Design tools		uilt module	s library and
Q.14 Which depicts flo <b>a. Flowchart</b> above	ow of control b. DFI		dules? c. Both A & B		d. None of the

Q.15 Abbreviate the term HIPO.



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·		b. High-level Input Process Output d. None of the above						
	6 The total number of awrence theory	distinct operator ar <b>b. Halstead's the</b>	-	occurrences i c. Kyburg, H		d. Jech, T.		
Q.1	Q.17 Hazard analysis focuses on the identification and assessment of potential hazards that can cause the							
a. E	external problems above	b. Internal probl	ems	c. Both A &	В	d. None of the		
a. S	8 Which model gives t ampling model Certification model	b. Compon	of the systement model	em that is pro	ejected and	I certified?		
Q.1	9 Which class gives a c content or function		_	corrects an e	error or enl	nances local		
a. (		Class 2	c. Class 3	(	d. Class 4			
Q.20 Which aspect is important when the software is moved from one platform to another?  a. Maintenance b. Operational c. Transitional d. All of the above								
Q.2	Q.21 A software project manager is a person who undertakes the responsibility of carrying out the software project.							
a. 1	rue b.	False						
a. C	2 From the following noting the lines of desorth A and B			g delivered fu				
Q.23 Which chart is a tool that depicts project as network diagram that is capable of graphically representing main events of project in both parallel and consecutive way?								
a. F		Gantt chart	c. Both A &		d. None of	the above		
Agile Software Development								
1.	Select the option that su			_				
•	Individuals and interacti Sustomer collaboration	•	king software onding to cha		e) All of the	e mentioned		
	Agile Software Developr							
a)	Incremental Developme	nt b) Iterat	ive Developn	nent d	:) Linear Dev	velopment		

e) Both a and b

3. Which on of the following is not an agile method?

d) Waterfall Model



a)	XP	b	) 4GT		c) AU	IP	
	<ul><li>4. Agility is defined as the ability of a project team to respond rapidly to a change.</li><li>a) True</li><li>b) False</li></ul>						
5. a) b) c)	<ul> <li>Outputs are decided through a process of negotiation during the software development process.</li> <li>Specification, design, implementation and testing are interleaved</li> </ul>						
	How many Гwo	phases are there b) Three c		Scrum is an	agile method	d which mean	s it does not have phases.
	Agile meth	nods seem to wor		team memb	ers have a re	elatively high s	skill level.
a) l	Jses increm are produc	he following does ental product de ced se use of project p	livery strate	gy			ial work products
a) <i>A</i>	<ul> <li>9. Which three framework activities are present in Adaptive Software Development (ASD)?</li> <li>a) Analysis, design, coding</li> <li>b) requirements gathering, adaptive cycle planning, iterative development</li> <li>c) speculation, collaboration, learning</li> </ul>						
	<ul><li>10. In agile development it is more important to build software that meets the customers' needs today than worry about features that might be needed in the future.</li><li>a) True</li><li>b) False</li></ul>						
	. Agile is Sequential	b) Iter	rative	c) Inc	remental	•	d) Both b & c
<ul> <li>12. What is/are advantage/s of Agile testing?</li> <li>a) Saves time</li> <li>b) requires less planning and creates less documentation</li> <li>c) Regular feedback from end users</li> <li>d) Solves issue in advance by daily meeting</li> <li>e) All the above</li> </ul>							
13. Who will test the system in agile development?							
a) s	software to	ester	b) Develop	er	c) Business	Analyst	d) All the above
a) (	On request	ceptance testing t of customer of each iteration	·	ed in Agile o b) After sys d) Daily	-		



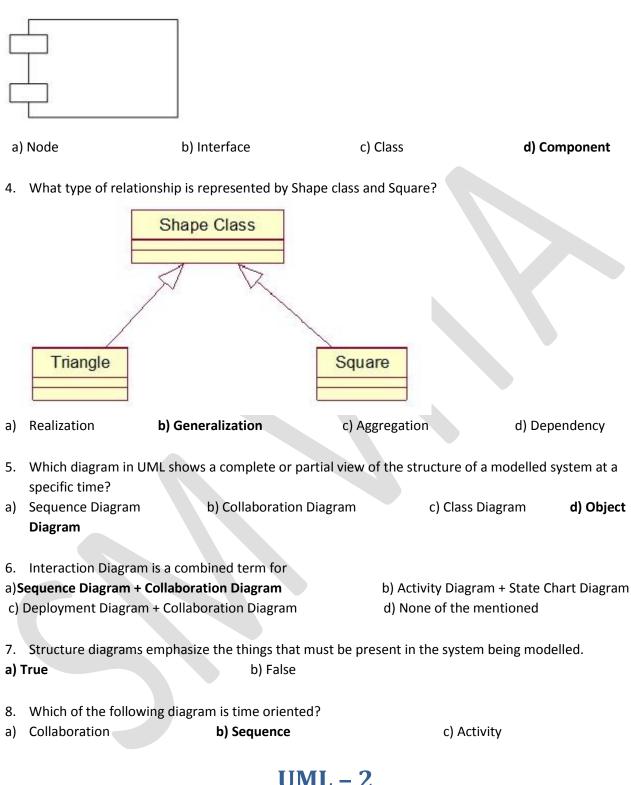
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15 .In agile development, lengthy documentation is created.

a) True <b>b) Fal</b> s	se		
<ul><li>16. Which skill are requ</li><li>a) Domain knowledge</li><li>b) Keen to learn and ad</li><li>c) Effective communica</li><li>d) All the above</li></ul>		elationship with develo	pment teeam
17. Who is responsible a) Product owner	for sprint meeting? b) Scrum team	c) Scrum master	d) All the above
18. Who prioritizes pro-	duct backlog?		
a) Product owner	b) Scrum team	c) Scrum master	d) All the above
<ol> <li>Daily scrum meet</li> <li>Sprint retrospective</li> <li>Sprint review meet</li> <li>Sprint</li> <li>1,5,2,3,4</li> <li>Which of the followin</li> </ol>	<b>2,4,3</b> c) 1,2,5,4,3	d) 1,3,2,4,5  L - 1	
a) Collaboration	b) Use case	c) State chart	d) Activity
2. What type of core-rel	ationship is represented by	the symbol in the figure b	pelow?
a) Aggregation	b) Dependency	c) Generalization	d) Association
3. Which core element of	of UML is being shown in th	e figure?	



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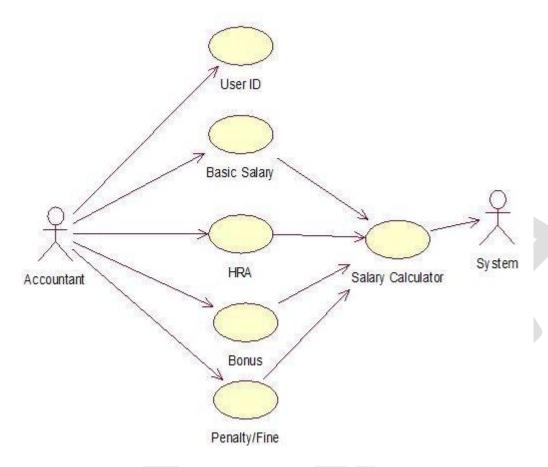
#### **UML - 2**

- 1. How many diagrams are here in Unified Modelling Language?
- a) Six
- b) seven
- c) eight

- d) nine
- 2. Which UML diagram is shown below?



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a) **Use Case** Diagram

a) Use Case

b) Collaboration Diagram

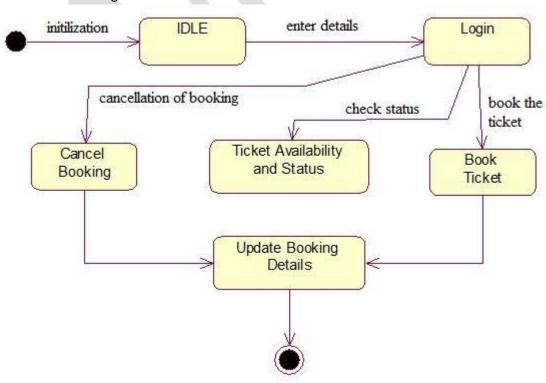
d) Object Diagram

b) State Chart

c) Class

c) Activity

3. Which UML diagram is shown below?

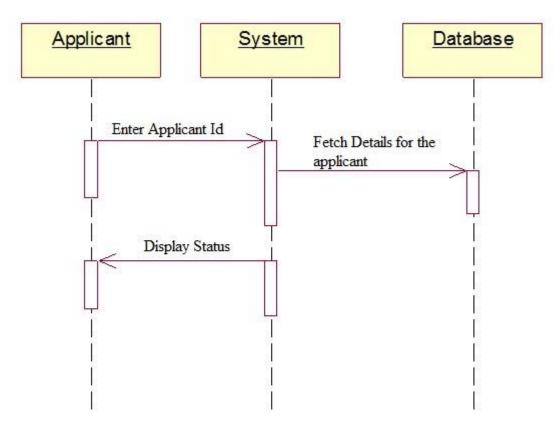


d) Object Diagram



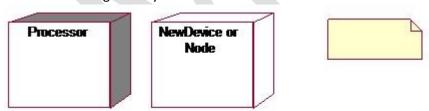
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4. Which UML diagram is shown below?



- a) Use Case Diagram
- b) Collaboration Diagram
- c) Sequence Diagram
- d) Object

5. Which UML diagram's symbols are shown below?



a) Deployment diagram

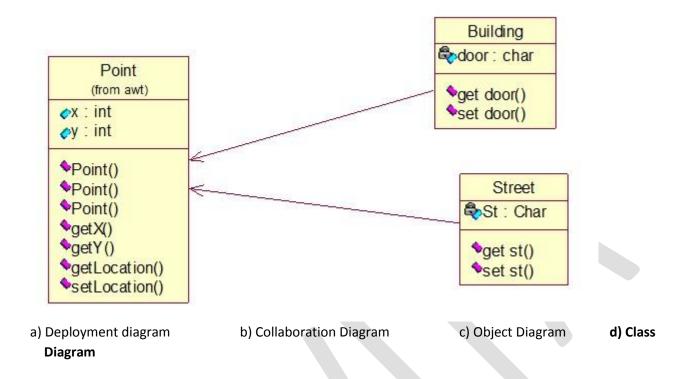
Diagram

- b) Collaboration Diagram
- c) Component Diagram
- d) Object

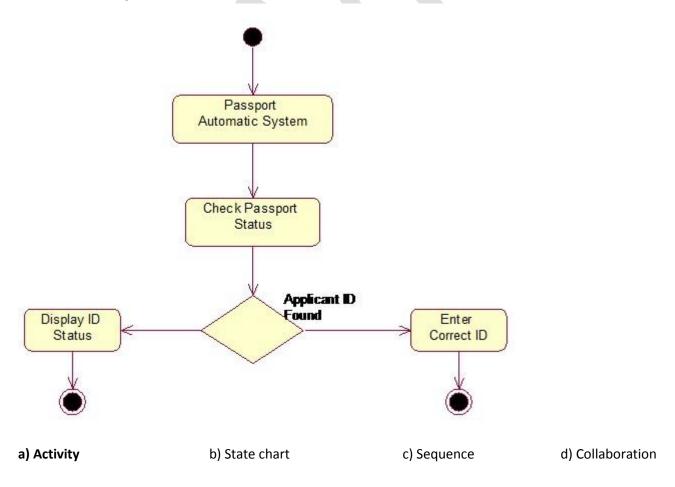
6. Which UML diagram is shown below?



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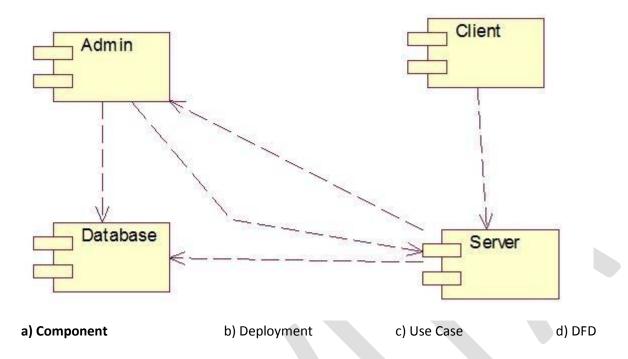
7. Which UML diagram is shown below?



8. Which UML diagram is shown below?



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### **Software Testing Techniques - 1**

- 1. Which of the following term describes testing?
  - a) Finding broken code the
- b) Evaluating deliverable to find errors
- A stage of all projects d) None of

mentioned

- 2. What is Cyclomatic complexity?
- a) Black box testing
- b) White box testing
- c) Yellow box testing
- d) Green box testing

- 3. Lower and upper limits are present in which chart?
- a) Run chart
- b) Bar chart
- c) Control chart
- d) None of the mentioned
- 4. Maintenance testing is performed using which methodology?
- a) Retesting
- b) Sanity testing
- c) Breadth test and depth test
- d) Confirmation testing

- 5. White Box techniques are also classified as
- a) Design based testing technique
- b) Structural testing
- c) Error guessing

- 6. Exhaustive testing is
- a) always possible and impossible
- b) practically possible
- c) impractical but possible
- d) impractical

- 7. Which of the following is/are White box technique?
- a) Statement Testing
- b) Decision Testing
- c) Condition Coverage
- d) All of

these

8. What are the various Testing Levels?



•	: Testing entioned	b) System Testing	c) Integration Testing	d) All of the
	undary value analys hite Box Testing	_	k Box Testing	
-	oha testing is done a	at b) User's	s end	
	Sof	ftware Testing	Techniques -	2.
1 Tho	testing in which coo	_	recimiques	
a) Blac	k box testing sting	b) White box testing	c) Red box testing	d) Green box
		anning and Documentation is egression testing		None of the mentioned
	eptance testing is als y box testing	so known as b) White box testing	c) Alpha Testing	d) Beta testing
	_	s non-functional testing? b) Performance testing	c) Unit testing d)	None of the mentioned
	ta testing is done at r's end	b) Developer's end		
6. SP a) So b) So c) <b>So</b>	ICE stands for ftware Process Impi ftware Process Impi	rovement and Compatibility I rovement and Control Detern rovement and Capability De	nination	
	nit testing is done by			
a) Use	rs	b) Developers	c) Customers	
	havioural testing is te box testing	b) Black box testing	c) Grey box to	esting
9. Whi	ch of the following i	s black box testing		
	c path testing e path analysis	<b>b) Boundary value ana</b> d) None of the mention		
10. Wł a) KLO	_	; is not used in measuring the b) Function Points	size of the software c) Size of module	
ے,LO	- '	.,	J, 5.25 51 1115 MMIC	



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# **Life Cycle Models**

1. Build & Fix Model is	suitable for programming ex	ercises of	LOC (Line o	of Code).
a) 100-200	b) 200-400	c) 400-1000	d) above	1000
2 DAD de de fe				
2. RAD stands for				
a) Relative Application D	·			
b) Rapid Application Des				
c) Rapid Application Doc	ument			
3. Which one of the follo	owing models is not suitable	for accommodating	g any change?	
a) Build & Fix Model	b) Prototyping Mode			d) Waterfall Model
,	, ,, ,,			
4. Which is not one of th	e types of prototype of Prot	otyping Model?		
a) Horizontal Prototype	b) Vertical Prototy	oe c) Diag	onal Prototype	d) Domain
Prototype				
5. Which one of the follo	owing is not a phase of Proto	typing Model?		
a) Quick Design	b) Coding	c) Prototype Ref	inement	d) Engineer Product
6. Which of the following	g statements regarding Build	l & Fix Model is wro	ong?	
a) No room for structure	ed design	b) Code soon b	pecomes unfix-a	ble & unchangeable
c) Maintenance is praction	cally not possible	d) It scales up	well to large pro	ojects
7. RAD Model has			15.4	
a) 2 phases	b) 3 phase	c) 5 phases	d) 6	5 phases
0. \\(\lambda \)	baalaafaina DAD AAadal2			
	wback of using RAD Model?	ara raquirad		
b) Increases re-usability	killed developers/designers	are required.		
c) Encourages customer				
d) Both a & c.	/ client reedback.			
a, both a & c.				
9. SDLC stands for				
a) Software Developme	ent Life Cycle	b) System I	Development Lif	e cycle
c) Software Design Life (	·		Design Life Cycle	-
,		, ,	,	
10. Which model can be	selected if user is involved in	n all the phases of S	SDLC?	
a) Waterfall Model	b) Prototyping Mode	•	) Model	d) both b & c
	2	-		
-		1.0.0	<b>D</b> 1	

#### **Function Oriented Software Design**

- 1. Choose the option that does not define Function Oriented Software Design.
- a) It consists of module definitions b) Modules represent data abstraction
- c) Modules support functional abstraction



2. \	Which of the following is a	a complementary approach to fur	nction-oriented approach?
	Object oriented analysis	b) Object oriented design	
c)	Structured approach	d) Both a and b	
3. F	Function-oriented design	techniques starts with functional	requirements specified in
a) \$	SDD	b) SRS	c) None of the mentioned
	Structured Analysis is base	· ·	
	Гор-down decomposition		b) Divide and conquer principle
c) (	Graphical representation	of results using DFDs	d) All of the mentioned
5. \ a) b) c) d)	A function such as "sear Functions represent son	are true with respect to functions ch-book" is represented using a cone activity on as a process symbol or a bubble	ircle.
<i>C</i> \	Athich of the following is	and a way of a CASE to all?	
	Which of the following is a		h) Maintains the data distingury
<ul><li>a) Support structured analysis and design (SA/SD)</li><li>b) Maintains the data dictionary</li><li>c) Checks whether DFDs are balanced or not</li><li>d) It complies with the available sys</li></ul>			d) It complies with the available system.
c) c	checks whether bi bs are	balanced of flot	u) it complies with the available system.
	·	resented by the Rectangle? b) Data Store c) Function	on d) None of the mentioned.
8.	Structural decompositio	n is concerned with function calls	
a)	True	b) False	
•			
9.	A function-oriented desi	gn focuses on the entities in the s	system rather than the data processing
	activities.		
a)	True	b) False	
10			
		ns with the system is denoted by	alo d) Trianglo
a)	Circle	b) Arrow c) Rectar	
		Project Manag	gement
1 \	Which of the following is	not project management goal?	
a)	Keeping overall costs wi		
b)		to the customer at the agreed tim	ne.
c)	<del>-</del>	d well-functioning development to	
d)	Avoiding costumer com		
2.	Project managers have t	o assess the risks that may affect	a project.
a)	True	b) False	
3.	Which of the following is	s not considered as a risk in proje	ct management?



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a)	Specification delays turnover	b) Product competi	tion	c) Testing	d) Staff
4. a) b)	The process each manager foll Project Management c) Project Management Life Co	b) Ma	a project is kno nager life cycle of the mention	9	
5. a)	A 66.6% risk is considered as very low b) low	c) moder	rate <b>d</b>	) high	e) very high
ω,	very row	e, mede.	<b>.</b>	,,	c, veryg
6.	Which of the following is/are r software development project	·	you should use	e when computing th	ne costs of a
a)	Travel and training costs				
b)	Hardware and software costs				
c)	All of the mentioned				
b) 6	effort costs (the costs of paying	software engineers ar	nd managers)		
7.	Quality planning is the process	of developing a qualit	ty plan for		
a)	team <b>b) project</b>		tomers	d) project	manager
8. a)	Which of the following is incor Internship management management	b) Change manageme		rsion management	d) System
9. a)	Identify the sub-process of pro Process introduction <b>b)</b> distribution	cess improvement  Process analysis	c) De-proces	sification d)	Process
10.	An independent relationship n quality attribute.	nust exist between the	attribute that	can be measured a	nd the external
a)	True b)	False			
		<b>Project Pl</b>	anning		
	Which of the following is an imp  Project size b) Planning uncertainty		affect the acci		f estimates? e of structural
2. \	What describes the data and co	ntrol to be processed?			
		Software scope			
c) E	External hardware d)	Project complexity			
3. <i>A</i>	A number of independent inves	-			quirements
3	gathering that can be applied to b) CLASS	•		lled d) None of the r	mentioned
a	) IND UJ CLASS	C) FAS	•	a, None of the f	nemioneu
4.	CLSS stands for				

b) Conveyor line sorting software

a) Conveyor line sorting system

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c) (	Conveyor line sorting s	speed	d) Conveyor line sort	ing specification	
5.	The project planner of which is known as	examines the stateme	nt of scope and extract	s all important softwa	re functions
a)	Association	b) Decomposition	c) Planning proce	ess d) All of th	e mentioned
6.	The environment tha	at supports the softwa	re project is called		
a)	CLSS b) s	SEE c) FAS	T d) CBSE		
7.	Which of the following	ng is not an option to	achieve reliable cost ar	nd effort estimate?	
a)	Base estimates on si	milar projects that hav	e already been comple	eted	
b)	Use one or more em	pirical models for soft	ware cost and effort es	timation	
c)	Use relatively simple	decomposition techn	iques to generate proje	ect cost and effort esti	mates.
d)	The ability to transla	ate the size estimate i	nto human effort, cale	ndar time, and dollars	5.
8. \	What can be used to c	omplement decompo	sition techniques and c	offer a potentially valu	able estimation
	approach in their ow	n right?			
a)	Automated estimation	on tools			
b)	b) Empirical estimation models				
c)	Decomposition tech	niques			
d)	Both Automated est	imation tools and Em	pirical estimation mod	lels	
9. ۱	Which of the following	g is not achieved by an	automated estimation	tools?	
a) F	Predicting staffing leve	els b)	Predicting software co	st	
c) F	Predicting software sc	hedules d)	Predicting client's den	nand	
10.			n exact science, but a	_	nistorical data
	and systematic		es can improve estima	tion accuracy.	
a) 1	True	b) False			
	So	ftware Pro	cess and Pr	oduct – 1	
1. \	Which one of the follo	wing is not a software	process quality?		
a) F	Productivity	b) Portability	c) Timel	iness	d) Visibility
2	&	are two ki	nds of software produc	cts.	
a) (	CAD, CAM	b) Firmware, Emb	pedded	c) Generic, Customis	ed
3.	Software costs more	to maintain than it do	es to develop.		
a) 1	Гrue	b) False			
4.	Which one of the fol	lowing is not an applic	ation of embedded sof	tware product?	
a) k	a) key pad control of a security system				
b) [	pattern recognition g	ame playing			
c) c	digital function of dash	nboard display in a car			

5. Purpose of process is to deliver software



a) in time	b) with acceptable quality	c) that is cost efficie	ent d) both a & b
regardless of a focuses on wh	application area, project size, or	can be categorized into three ge complexity namely thefocuses on how and the	phase which
a) 1, 2, 3	b) 2, 1, 3	c) 3, 2, 1	d) 3, 1, 2
7. Which of the fo a) Communication		rocess framework provides a feed c) Modelling & Construction	dback report?  d) Deployment
8. Process adopted another project	d for one project is same as the	process adopted from	
a) True	b) False		
	help team manage and control p	Activity that complements the fivorogress, quality, change, and ris anagement e) Software	
	change are encountered during such category?	the support phase. Which one of	the following is not one
a) Translation	b) Correction	c) Adaptation	d) Prevention
	Software Proce	ess and Product	<b>- 2</b>
1. If a software pa) True		e, one can add more programmer	
2. Choose an inte	ernal software quality from give	n below:	
a) scalability d) reliability	b) usability	c) reusability	
3. RUP stands fo	r created by a div	vision of	
a) Rational Unified c) Rational Unified	d Program, IBM d Process, Microsoft	b) Rational Unified Pro d) Rational Unified Pro	
perspective do  b) It suggests goo	nally described from three perspo? a) It shows the process actived practices to be used during the hases of the model over time.		ce. What does static
5. The only deliv	erable work product for a succe <b>b) False</b>	ssful project is the working prog	ram.
6. Which phase of a) Transition	of the RUP is used to establish a b) Elaboration		d) Inception



7. Which one of the follo	wing is not a fundan	nental activity fo	r software processe	s in software engineering?
a) Software Verification	b) Softwar	e Validation	c) Software des	ign and
implementation				
d) Software evolution	e) Software	specification		
•	·	•		
8. A general statement	of objectives is the r	naior cause of fa	niled	
software efforts.				
a) True	b) False			
u,uc	<i>5</i> , 1 0.50			
9. The longer a fault exi	ists in software			
a) the more tedious its			h) the more costly i	t is to detect and correct
•				
c) the less likely it is to be	e properly corrected		d) All of the mention	oned
10. Component-based So		allows faster del	livery.	
a) <b>True</b>	b) False			
11. Arrange the following	g steps to form a bas	sic/general Engin	eering	
Process Model. i. Tes	st ii. Design iii. Install	iv. Specification	V.	
Manufacture vi. Maii	ntain			
a) 2, 4, 5, 1, 6, 3	b) 4, 2, 5, 1, 3,	, <b>6</b> c)	2, 4, 5, 1, 3, 6	d) 4, 2, 5, 1, 6, 3
	Doguinos	mont En	gin o o vin g	
	Kequirei	nent En	gineering	
1. What are the types of	requirements?			
a) Availability k	o) Reliability c)	Usability	d) Flexibility	e) All of the mentioned
2. Select the developer s	pecific requirement?			
a) Portability	b) Maintaina		c) Availability	d) Both a and b
a) i or tability	S) Manicania	~cy	o, manaome,	a, 2001. a ana a
3. Which one of the follo	wing is not a step of	requirement en	gineering?	
				d) Decumentation
a) Elicitation	b) Design	C) A	nalysis	d) Documentation
4. FAST stands for				
a) Functional Application		•		Specification Technique
c) Facilitated Application	Specification Techr	nique	d) None of the m	entioned
5. QFD stands for				
a) quality function design	۱ ا	b) quality function	on development	
c) quality function deplo	<b>yment</b> c	l) none of the me	entioned	
6. A Use-case actor is a	lways a person havir	g a role that diff	erent people may p	lay.
a) True	b) False	-	, , , ,	•
,	•			
7. The user system requ	uirements are the na	rts of which doc	ument?	
a) SDD	b) SRS	c) DDD		
,	~, ~··•	0, 000		



8. a)	,	o will purchase the comp False	leted software system	under development.
9.	. Conflicting requirements are version is the right one.	e common in Requiremer	nt Engineering, with ea	ach client proposing his or her
a)		False		
	O. Which is one of the most im Entry level personnel  software	portant stakeholder fron o) Middle level stakeholde	_	d) Users of the
		Software l	Metrics	
a) l	. Which of the following is the t ) help in assessment of status o of the nentioned			c) both a and b d) none
	. Which of the following does n ) Market b) Pro		uality and organization chnology	al performance? d) People
a) [	. The intent of project metrics i ) Minimization of development ) Assessing project quality on o	tschedule	b) For strategic purpo d) Both a and c	eses
	. Which of the following is not a ) Efficiency b) Co		rocess? ffort Applied	d) All of the mentioned
	. Which of the following is an in ) Quality b) Co		act? deliability	d) All of the Mentioned
	. In size oriented metrics, metri ) Number of Functions b memory usage	ics are developed based ) Number of user inputs	on the c) Number of line	es of code d) Amount of
	. Which of the following is not a ) Number of user Input b  Number of errors	an information domain ro o) Number of user Inquiri		ng function point in FPA? ternal Interfaces <b>d)</b>
a) I b) <sup>-</sup> c) <b>I</b>	. Usability can be measured in t ) Intellectual skill to learn the sy ) Time required to become mod ) Net increase in productivity ) All of the mentioned	ystem	em usage	



<ul><li>9. A graphical technique for finding if</li><li>a) DRE (Defect Removal Efficiency)</li></ul>	b) Function p	oints analysis	re meaningful is known as
c) Control Chart	d) All of the n	nentioned	
10. Defects removal efficiency (DRE)	depends on:		
a) E – errors found before software d	elivery b) D – o	defects found after o	delivery to user
c) Both E and D	d) Varie	es with project	
Softv	vare Main	tenance –	1
1. Software Maintenance includes			
a) Error corrections	b) Enhanceme	ents of capabilities	
c) Deletion of obsolete capabilities mentioned	d) All of the		
2. Maintenance is classified into how	many categories?		
a) Two b) Three	c) Four	d) Five	
3. The modification of the software to category of software maintenance	-	he ever changing en	vironment, falls under which
a) Corrective b) Adapt		rfective	d) Preventive
4. How many phases are there in Tau	te Maintenance Mod	del?	
a) Six b) Seven	c) Ei	ght	
d) Nine			
5. What type of software testing is get a) Regression Testing b) Syste	enerally used in Softv em Testing	vare Maintenance? c) Integration Tes	ting d) Unit Testing
<ul><li>6. Regression testing is a very exper</li><li>a) True</li><li>b) Fal</li></ul>			
7. Selective retest techniques may be selective retest techniques are the		than the "retest-all"	technique. How many
a) Two d) Five	ee	c) Four	
8. Which selective retest technique different output than its original		se that causes a mo	dified program to produce a
•	nimization	c) Safe	
9 measures the a	bility of a regression	test selection techn	ique to handle realistic
applications.			
a) Efficiency b) Prec	ision c) (	Generality	d) Inclusiveness
10. Which regression test selection to	echnique exposes fau	ılts caused by modif	ications?
a) Efficiency b) Preci	sion	c) Generality	d) Inclusiveness



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#### **Software Maintenance - 2**

, ,	analysis and design documents is b) Software re-engineering		g d) Re-
engineering			•
2. What is a software patch?			
a) Required or Critical Fix	b) Emergency Fix		
c) Daily or routine Fix	d) None of the mentioned		
3. Which one of the following	g is not a maintenance model?		
a) Waterfall model	b) Reuse-oriented	model	
c) Iterative enhancement mo	d) Quick fix mode		
	in In Boehm model for software r	maintenance?	
a) Actual change track	b) Annual change track		
c) Annual change traffic	d) Actual change traffic		
5. Choose the suitable option	ns with respect to regression testi	ng.	
a) It helps in development of		tenance of software	
c) both a and b	d) none of the me		
6. What are legacy systems?			
a) new systems b) ol	d systems c) under-develo	ped systems d) none	e of the mentioned
7. Which of the following ma	nuals is not a user documentation	า?	
a) Beginner's Guide	b) Installation guide	c) Reference Guide	d) SRS
	nuals is a user documentation?		
a) SRS -Software Requiremen	nt Specification b) SDD -Soft	ware Design Document	
c) System Overview			
9. The process of transforming	ng a model into source code is kno	own as	
a) Forward engineering	b) Reverse engineering	c) Re-engineering	d) Reconstructing
10. How many stages are the	re in Iterative-enhancement mod	lel used during software r	maintenance?
a) Two b)	Three c) Four	d) Five	
<b>Software Conf</b>	iguration Manag	gement – 1	
1. Which of the following cat	egories is part of the output of so	ftware process?	
a) computer programs	b) documents that describe	the computer programs	
c) data <b>d) All of the mentione</b>	d		
2. Which is a software config	uration management concept tha	nt helps us to control char	nge without seriously

c) Data model

impeding justifiable change?

b) Source code

a) Baselines

d) None of the mentioned



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c) Software Configuration Management distributed among the project members d) All of the mentioned

3. Software Configuration Management can be administered in several ways. These include

a) A single software configuration management team for the whole organization

b) A separate configuration management team for each project

4. What combines proced created during the sc		age different vers	ions of configu	iration objects that are	)
a) Change control	b) Version control	c) S	Cls d)	None of the mentione	ed
<ul><li>5. What complements th that are generally no</li><li>a) Software configuratio</li><li>c) Baseline</li></ul>	t considered during rev n audit b) S	-	ation managem		cs
<ul><li>6. Which of the following compiling and linking</li><li>a) System building</li><li>c) Change management</li></ul>	these to create an exe b) Release mana	ecutable system? gement	omponents, da	ta, and libraries, and th	hen
7. Which of the following a) Tracking of change pro c) Tracking the releases o	pposals		b) Storing ve	ools? rsions of system compo ne mentioned	onents
8. Which of the following a) Configuration item ide c) Release management	ntification <b>b)</b> R	iguration Manage Risk management Branch manageme			
9. The definition and use a) ISO 9000	of configuration mana b) CMM	gement standards c) CMMI		r quality certification in All of the mentioned	n
10. What involves prepar		nal release and ke	eping track of t	the system versions tha	at
a) System building management	b) Release manag	<b>gement</b> c) Ch	nange managei	ment d) Versio	n
Softwa 1. Which of the following maintained?	are Configu process ensures that w				
a) Code line	b) Configuration	control	c) Version	d) Workspace	
2. Which of the following  a) Change management c) System building	b) Versio	with analysing then management emanagement	costs and ben	efits of proposed chan	iges?
3. Which of the following	; is not a Version mana	gement feature?			



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<ul><li>a) Version and release identification</li><li>c) Project support</li></ul>	<ul><li>b) Build script generation</li><li>d) Change history recording</li></ul>	
Which method recommends that vectoring to discover software probabilities.	·	e carried out with automated
a) Agile method	b) Parallel compilation method	
c) Large systems method	d) All of the mentioned	
5. Which of the following is not a buil	d system feature?	
a) Minimal recompilation	b) Documentation generation	
c) Storage management	d) Reporting	
6. Which of the following is a collection	on of component versions that make	up a system?
a) Version b) Code	ine <b>c) Baseline</b>	d) None of the above
7. Which of the following is a configural a) Design specification b) Source) All of the mentioned		n d) Log information
	ey that have been designed for that re ed to help install the system on targe ing different versions of a system is k c) Software Configuration Iten	nown as
10. Which of the following term is be version in an existing code line"?		ation of a new code line from a
a) Branching b) Merg		d) Mainline
F	Risk Management	
1. Risk management is one of the mo	•	
a) Client b) Investo	, ,	d) Project manager
<ul><li>2. Which of the following risk is the fa</li><li>a) Product risk</li><li>b) Project</li></ul>		perform as expected? d) Programming risk
3. Which of the following term is best management with different prior		ill be a change of organizational
a) Staff turnover b) Technology of		ge d) Product competition
4. Which of the following term is best	defined by the statement: "The und	erlying technology on which the

system is built is superseded by new technology."?

b) Product competition

a) Technology change



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c) Requirements change	d) None of the ment	ioned	
5. What assess the risk a risk?	nd your plans for risk mitiga	ition and revise these wher	n you learn more about the
a) Risk monitoring	b) Risk planning	c) Risk analysis	d) Risk identification
6. Which of the following developed?	g risks are derived from the	organizational environmen	t where the software is being
a) People risks	b) Technology risks	c) Estimation risks	d) Organizational risks
7. Which of the following develop the system?	g risks are derived from the	software or hardware tech	nologies that are used to
a) Managerial risks	b) Technology risks	c) Estimation risks	d) Organizational risks
	g term is best defined by the n hiding in the design."? lopment time b) Organiza	e statement: "Derive tracea ational restructuring c) R	
a) Avoidance strategies	g strategies means that the <b>b) Minimization strat</b> d) All of the above		duced?
10. Risk management is management tasks.	now recognized as one of th	ne most important project b) False	•
11. Every risk has 100% a) True	6 likelihood. True or false. <b>b) False</b>		
12. Risk management			
a) Customer b) Inv	vestor c) Developer	d) Project team	e) Production team
13. Risk is expressed in a) True	terms of probability and b) False	impact.	
14RE represents wha			
a) Risk expense	b) Related expense	c) Risk exposure	d) Risk evaluation
15. As a tester which o website?	f the following will come	under product risk if you	are testing an e-commerce
a) Shortage of testers b) Many changes in SR	S that caused changes in	test cases	
	ts by development team		
<b>d) Failure to transfer a</b> e) All of the above	user to secure gateway	while paying	

16. Which of the following technique will ensure that impact of risk will be less?



<ul><li>a) Risk avoidance technique</li><li>c) Risk contingency technique</li></ul>		b) Risk Mitigation technique d) All of the above				
17. What is associated a) Control of test item c) non-availability of te	·		ve consequenc <b>oject</b>	es		
18. Risk management i a) True	s important part b) False	of a project managem	ent. True or fa	lse.		
19. After deployment of functionality. Who a) QA personnel		tware is incorrectly pe mine how badly it will c) Technical pe	hamper the or			
<ul><li>10. Which is/are ways</li><li>a) Mitigate</li></ul>	to deal with risk? b) Contingency	c) Transfer	d) Ignore	e) All of the above		
User Interface Design						
<ul> <li>1. Which of the following is golden rule for interface design?</li> <li>a) Place the user in control</li> <li>b) Reduce the user's memory load</li> <li>c) Make the interface consistent</li> <li>d) All of the mentioned</li> </ul>						
<ul><li>2. Which of the following</li><li>a) Provide for flexible int</li><li>b) Allow user interaction</li><li>c) Show technical intern</li><li>d) Design for direct inter</li></ul>	eraction to be interrupt-ab als from the casua	le and undo-able I user		ontrol?		
<ul><li>3. Which of the following is not a user interface design process?</li><li>a) User, task, and environment analysis and modelling</li><li>b) Interface design</li><li>c) Knowledgeable, frequent users</li></ul>						
d) Interface validation						
4. When users are involv a) short-term memory	ed in complex task	s, the demand on b) shortcuts	can be si	gnificant.		
c) objects that appear or	the screen	d) all of the mentione	d			
<ul><li>5. Which of the following</li><li>a) the design of interfact</li><li>b) the design of interfact</li><li>c) the design of the int</li><li>d) all of the mentioned</li></ul>	ces between softw ces between the so	are components oftware and human prod	-	umers of information		
6. A software might allow a) keyboard commands		via ouse movement				



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c) voice recognition co	mmands d) all of the	e mentioned				
7. A software engined predefined design	_	ce by applying an iterative p	rocess that draws on			
a) True	b) False					
8. What incorporates data, architectural, interface, and procedural representations of the software?  a) Design model b) user's model c) mental image d) system image						
a) Design model	b) user s moder	c) mental image	d) system image			
9. What establishes the profile of end-users of the system?						
a) Design model	b) user's model	c) mental image	d) system image			
	e outward manifestation o escribe system syntax and		m, coupled with all supporting			

#### **DevOps**

- Q.1) Which one of the following methodologies does least impact the establishment of DevOps methodology?
- a) Lean Manufacturing.

a) Mental image

- b) Agile Software Delivery.
- c) Waterfall Software Delivery.
- d) Continuous Software Delivery.

c) system image

d) interface validation.

- Q.2) In typical IT organizations why is there a typical conflict between development and operations teams?
  - a) Because they come from different backgrounds.

b) interface design

- b) Because development team knows more about software products and services.
- c) Because operations team knows more about test and production environments.
- d) Because they have conflicting business goals and priorities.
- Q.3) Which one of the following techniques makes DevOps a successful methodology to develop and deliver software?
  - a) DevOps enables you to organize your teams around your organizational mission.
  - b) DevOps enables you to create your software with built-in quality and monitoring.
  - c) DevOps enables you to quickly identify, fix and learn from errors.
  - d) All above choices.
- Q.4) Which one of the following statements about DevOps is incorrect?
  - a) DevOps is only suitable for start-up companies.
  - b) DevOps is suitable for brownfield software products and services.
  - c) DevOps is suitable for greenfield software products and services.
  - d) Some of the most exemplary DevOps initiatives started in companies with giant and mature IT organizations.
- Q.5) How does a DevOps organization act in principle when it comes to financing its work?

  a) It finances special projects to serve its clients.



- b) It finances products and services to serve its clients.
- c) It finances teams in matrix organizations and these teams are responsible for handling their own budgets.
- d) It finances development and operations teams separately, so they take care of their own business.
- Q.6) In a DevOps organization which one of the following elements does not directly contribute to your value stream?
  - a) DevOps team
- b) Stakeholders of downstream work centers.
- c) Errors, incidents and fixes.
- c) Clients.
- Q.7) Why is it a good idea to limit batch size of your continuous DevOps deliveries?
  - a) You will be quicker to identify root causes of issues and resolve them.
  - b) By continuously delivering in production, your team will have the constant pride of contributing your organizational mission.
  - c) Potentially required rollbacks from your production systems will be less cumbersome.
  - d) All above choices.
- Q.8) What is trunk in trunk based DevOps delivery?
  - a) Developers collaborate on code in a single branch called "trunk".
  - b) Trunk is a special private branch in a developer workstation.
  - c) Trunk is the process of merging code in DevOps deliveries.
  - d) Trunk is a special source code version controlling system which stores mission critical special projects of your DevOps organization.
- Q.9) Which one of the following is not one of the DevOps principles for good test automation?
  - a) Test Automation should give quick and early feedback about your quality of work.
  - b) Never mix test driven development (TDD) together with your test automation approach.
  - c) Tests should generate consistent, deterministic and repeatable results provided same conditions for different test runs.
  - d) With your test automation, avoid slow and periodic feedback. What you need is fast feedback whenever you or your developer attempts to check-in code to your trunk.
- Q.10) Which one of following release patterns does not enable you to do low risk DevOps code deployments in your production systems?
  - a) Canary Deployment Pattern (The Dark Launch).
  - b) Blue-Green Deployment Pattern.
  - c) Cluster Immune System Release Pattern.
  - d) Big bang code deployments of fully tested and validated releases.
- Q.11) What is one of best techniques to convert normal changes into standard changes?
  - a) Use your track record of successful automated deployments with standard changes.
  - b) Negotiate with release managers.
  - c) Publicly complain about bureaucracy and make everyone be aware of it.
  - d) Make sure normal changes are very carefully deployed to your production systems.



- Q.12) What is a widely used reusable asset to reinforce information security of deliverables from your DevOps team?
  - a) Data storage systems.
  - b) Handling the logging of sensitive client information.
  - c) Data transfer between clients and software.
  - d) All above choices.
- Q.13) What is not one of major benefits of designing a safe system of work culture?
  - a) Complexity of your systems will be managed, so problems in designs and operations will be quickly detected.
  - b) DevOps team does no longer need to be careful and mindful to ensure quality.
  - c) Problems are quickly resolved while they are small. Resolving problems will result in spontaneous construction of new organizational knowledge and experience.
  - d) Leaders in your DevOps organization develop other leaders who create and continuously improve safe systems of work.
- Q.14) What is telemetry?
  - a) Telemetry is a widely known SaaS tool to plan and execute DevOps projects.
  - b) Telemetry is a communication tool used by DevOps teams at geographically distributed locations.
  - c) Telemetry is the process of recording the behaviour of your systems.
  - d) Telemetry is a tool to design, code and execute automated unit tests.
- Q.15) In terms of fixing errors in your production systems what is the major benefit of using feature toggles embedded in configurations of your software applications?
  - a) This is easiest way to fix a problem. It doesn't require an urgent code deployment.
  - b) You don't have to very urgently correct erroneous pieces in your deployment.
  - c) Your DevOps team can take time to properly identify root cause of an issue and improve their techniques to ensure such a problem will not likely happen again in the future.
- d) All above choices.