Software Engineering Question Bank eDAC Sept 21



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1. In use-case dia	agram, what is syste	em illustrated by?		
a) Oval	b) Box	c) Circle		d) Triangle
_				
UML supports	pha	ises of software develop	ment	
a) Earlier	b) Final	c) Middle	d) All	
3. Requirement a	analysis			
a) Dolivers a sv	stom in a sories of w	orsions		
a) Delivers a sys	stem in a series of v	ELZIOLIZ		
b) Organizes ab	straction			
c) Builds a brid	ge between user ar	nd developer		

- 4. What is type of software maintenance?
 - a) Adaptive b) Corrective c) Perfective d) Obsolescence

d) Uses experimental software to better understand user requirements

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5. Which of the following ac		lives choosing a sy	stem structure capa	ible of
satisfying requirement spo				
a) Requirement analysis	b) Design	c) Coding	d) Testing	
6 8:1 .1 .1	S.1. S.11.			
6. Pick up the odd one out o	=			
•	b) Object ide			
c) Structural decomposition	d) E-R diagra	ms		
7 Lifecycle mo	ndel describe how	software system s	hould be developed	and describe
how software are actually		ortware system s	nound be developed	and acsembe
a) Prescriptive & Descriptive	•	criptive & Definiti	ve	
c) Descriptive & Prescriptive	•			
8. The requirement phase cor	nsist of			
A) Problem analysis	3) Requirement spe	ecification		
C) Requirement validation D)	Problem validation	า		
a) A, B, C b) A, B, C, D	c) A, B,	D d) A, C,	D	
a) A, B, Cb) A, B, C, D9 is a method f	0	1/	1-10° A	
9 is a method f	or estimating the s	oftware	rla	
a) COCOMO b) Function Poi				
10. The elements of the softw	are architec <mark>ture of</mark>	a computing syst	em include	
1) Software components				
2) Class diagrams				
3) Connectors expressing rela	tionship <mark>s betwe</mark> en	software compon	ents	
4) entity relationship diagram	S			
a) 1 & 2	b) 1 & 3	c) 1, 3 & 4	d) 1, 2, 3	
& 4				
,				
11. Ability of a software to pe	rform intended fur	nction with minim	um consumption of	computing
resources				
a) Efficiency b) Ro	bustness c) Reliab	ility d)	Correctness	
12. Ability to deal with except	tional conditions e.	g. invalid input, in	nproper handling, po	wer failure,
disk crash etc.				
a) Efficiency	o) Robustness	c) Reliability	d) Correctn	ıess
13. The type of testing carried	out along with cod	ing is called		
a) System testing	o) Unit testing	c) Pretesting	d) Stress te	esting
14. Maintainability is the ease		vare can		
a) Be corrected if an error is				
b) Adapted if its environmen	t changes			
c) Enhanced if the customer	desires a change ir	n requirements	d) All of abo	ove
15. The type of software mair	ntenance which is d	lone to remove bu	igs or defects in the	software is

called



a) Corrective Maintenance	b) Adaptive Maintenance	
c) Regressive Maintenance	d) Perfective Maintenance	
16. RAD stands for		
a) Rapid Application Development	b) Random Access Disc	
c) Random Application Driver	d) Rapid Alignment Disc	
17. Which of the following is not tru	e about Component Assembly Model	
a) It is similar to the Spiral Model		
b) The technical framework for this	model is provided by object technologies	
c) Candidate classes are extracted to	from class library or developed	
d) Its productivity is low		
18. Which of the following is not tru	e about the context diagram?	
a) It does not show details of the fur	nctioning b) It shows major inputs & outputs of the syster	n
c) It shows the external entities of the	e system c) It shows the data stores of the system	
19. Data Items in a data dictionary a	re description of	
a) Input data b) Data flows		
,		
20. The ways of describing specificat	tions at different levels of detail include	
	o) Requirements specification	
c) Both a and b options	d) None of these options	
21. Stable requirements are		
a) Requirements related to the con	re activities of software customer	
	l <mark>ent on</mark> the en <mark>vironme</mark> nt where the delivered system is to b	эe
used		
c) Both a and b options		
d) None of these options		
22. Functional Independence is not a	achieved by	
a) Coupling b) Modularity	c) Information Hiding d) Any of the above	
23. If two modules are coupled with	out exchange of data or control information then they exh	ibit
a) Normal Coupling b) Stam	np Coupling c) Control Coupling d) Common	
Coupling		
24. Which of the following is a graph	nical tool for software design?	
a) Data Flow Diagram b) Structure	Chart c) Decision Tree d) All of the above	
25. Changes made to the software to	o correct defects uncovered after delivery is called	
a) Perfective maintenance	b) Regressive maintenance	
c) Adaptive maintenance	d) Corrective	
maintenance		



26. Arrange the	e following in the	e correct sequ	uence of software esti	mation a. Schedule Estimation b.
	Cost Estimation d	. Size estimat	ion	
			c) D, B, A, C	d) A, C, D, B
			project will result in t	
implement	•		,	
•		c) C++	d) Visual Basi	C
=	edule can be illus	_		
a) DFD and ERD	b) Bar cl	nart	c) Activity chart	d) Both b and c options
29. Most of the	e project plans sh	ould include		
a) Risk analysis	b) Project org	anization c)	Project schedule d) A	All of the above
30	shows the depen	dencies betw	een the different activ	vities making up a project.
a) PERT chart	b) Bar chart	c) S	taffing Plan d)	Pi chart
	rammer Teams a			- A
a) With researc	h orientation	b) With I	nigh modularity of these	FTOT A
c) With high cre	eativity	d) None	of these	
32. Judging the	e seriousness of a	risk by eva <mark>lu</mark>	uating its probability a	ong with its consequences is
a) Risk analysis	b) Risk P	rojection	c) Risk Estimation	d) All of the above
33. The RMMM	ا plan is generall ا	y inclu <mark>ded in</mark>	the	
a) Feasibility Stu	udy b)	Project Plan	c) SRS Docum	ent d) Project Legacy
	V.		sage i <mark>n messa</mark> ge queu	e.
a) True	b) False	c) N	lot A <mark>lways</mark>	
•	ndow() paints the	e client area.		
a) True	b) False	c) N	lot Always	
36. HINSTANCE	E type variable st	ores id of rur	ning application	
a) True	b) False	c) N	lot Always	
37. The WM_II box is is pla		age is sent to	the dialog box proced	lure immediately before a dialog
a) True	b) False	c) N	lot Always	
38. Send Mess	age is not directl	y send to the	window procedure.	
a) True	b) False	c) N	lot Always	
20 Januaria - Ta				
39. Icon is a Te a) True	b) False	c/ N	Iot Always	
a, iiuc	און ו־מושכ	C) IV	iot Aiways	

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40. Sub classing	means changing i	ine benaviou	r of controls.			
a) True	b) False	c) Not	t Always			
41. CALLBACK fu	nctions are called	by the oper	ating systems.			
a) True	b) False		t Always			
•	ot related to callin	•	•			
a) True	b) False	_	t Always			
43. Which of the	following operat	ions is provic	ded by a comn	non dialog bo	ox?	
a) Choosing an ic		b) Choosing	g a network dr	ive.		
c) Choosing a dat	tabase.	d) Choosing	g a font.			
44. What is the p	orimary differenc	e between Se	end Message a	and Post Mes	sage?	
a) Send Messag	ge is used for loca	I queues, wh	ile Post Messa	ige issued for	remote queues.	
b) Send Messag time.	ge can only be use	ed within a w	orker thread,	while Post M	lessage can be use	ed at any
C) Send Messag		messages to t	the application	າ thread, whi	le Post Message c	an send
messages to		um	IVIU	reere,		
d) Send Message	e is called from w	rithin a Wi <mark>nd</mark>	ows procedur	e, while Post	t Message is called	d from
within messa	age queues					
45. Menu is						
a) GDI Object	b) Resource	ce	c) Pictur	e		
	not type of Device					
a) Screen Device	Context	b) Wi	indow Device	Context		
c) Client area Dev	vice Context	d) Vid	ew <mark>Device C</mark> or	ntext		
47. Modal Dialog	g Box is created o	n	&Mode le	ess Dialog Box	x is created on	
a) Heap , stack	b) Stack , l	heap				
48. Which of the	following are res	sources.				
a) Menu	b) Bitmap	c) Status Ba	r Icon			
49	function crea	tes model dia	alog box.			
a) Create Dialog()	b) Di	ialog Box()	c) Dlg Bo	ox()	d) Unknown	
50						
a) Handle to the v	window	b) LRESULT		c) BOOL		
51. To subclass v						
a) Set Class Long(()Set Class()		b) Set Long Cl	ass()	c) Settling()	

52. The three classes of interface errors are:

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a) Inter face misu	use b) Interfa	ce misunderstanding	c) Timir	c) Timing errors		
53	is first mes	sage passed to windo	w procedure.			
a) WM_PAINT WM_COMM	b) WM_C	REATE c)		d)		
54	function creates m	odeless dialog box.				
	()Dialog() b)Ci	=	c)Dialo	g Box()		
	ows messages in higher					
a) WM_TIMER WM_PAINT	b) Posted Mess	age c) WM_LBUT ⁻	FONDOWN d)	Sent Message e)		
a) 1, 2, 3, 4, 5	b) 5, 4, 3, 2, 1	c) 2,3,4,5	, 1 d) 3, 4	,5,1,2		
56. Write steps	to create standard win	dows application				
	Register Window clas	S				
2. Create wind						
3. Display Wind	dow	7.7				
4. Wiessage ioo	Shrira	ım Vla	ntri			
a) 1, 2, 3, 4, 5	b) 2 2 4 E 1	c) 3, 4, 5, 1,	2 4)4 5	1 2 2		
a) 1, 2, 3, 4, 3	0)2,3,4,3,1	C) 3, 4, 3, 1,	. 2 u, 4, 3	, 1 , 2 , 3		
	program should have a	- / - /				
=	nd Translate Message		s from the messa	ge queue.		
a) True	b) False	c) Not always				
58 Get DC() is u	sed to retrieve the dev	ice context handle fo	r the windows cli	ent area when		
	WM_PAINT message.	ice context name to	Terre windows en	ene area when		
a) True		c) Not always				
· ·	e key is pressed then W be stored in Parma.	M_CHAR message wi	II be generated a	nd the ASCII code of		
a) True	b) False	c) Not always				
	VM_LBUTTONDOWN, \ nat time LOWORD (Par	_	-	=		
a) True	b) False	c) Not always				
61. Predefined o	controls send WM_COM / message.	лмAND message whe	ereas common co	ntrols send		
a) True	b) False	c) Not always				
62. A Device Co	ntext is a GDI structure	, which deals with tex	ct and graphics.			
a) True	b) False	c) Not always	.			

63. A Metafile is a collection of GUI functions that are encoded in a binary format.



a) True	b) False	c) Not always
64. A Clipboard True b) Fal		mation between applications or within application. a)
65. Win Main is	an entry point for wind	ows application.
a) True	b) False	c) Not Always
66. Menu is GDI	Object.	
a) True	b) False	c) Not Always
67. WINAPI is a Procedure.	API function which expl	icitly calls Operating System to run Window
a) True	b) False	c) Not Always
68. When functi	on key(s) pressed on th	e keyboard that time WM_KEYDOWN message is generated.
a) True	b) False	c) Not Always
60 I DESILIT is a	return type of Dialog P	rocedure.
a) True	b) False	c) Not Always
70. Set Pixel is u	sed to draw a particula	r p <mark>ixel with</mark> a particular colour.
a) True	b) False	c) Not Always
71. GetROP2 () i	s used to get the curr <mark>er</mark>	<mark>nt draw</mark> ing mod <mark>e.</mark>
a) True	b) False	c) Not Always
72. Palette is an	attribute of a device co	ontext.
a) True	b) False	c) Not Always
73. Windows TII	MER is not an input dev	ice.
a) True	b) False	c) Not Always
74. In MDI appli	cation the default wind	ow procedure for main Window is Def. WindowProc ().
a) True	b) False	c) Not Always
<i>a,</i>	5, 1 0.00	o,
75. The WM_IN box is displa		nt to the dialog box procedure immediately before a dialog
a) True	b) False	c) Not Always
76. In MDI appli	cation child windows ar	re created by mainframe windows.
a) True	b) False	c) Not Always
77. Cursor is a G	iDI Object.	
a) True	b) False	c) Not Always



_	neans changing th				
a) True	b) False	c) Not Al	ways		
79. Colour Dialog	box is a common	dialog box.			
a) True		_	wavs		
a,ac	27 . 0.00	0, 11007	,5		
= = = = = = = = = = = = = = = = = = = =	· · · · · · · · · · · · · · · · · · ·		e double click mou in a window class s	-	=
			c) CS_DBLCLICKS		
CS_DOUBLECLICK			· -		_
81	is used	to play the me	etafile.		
a) Play Meta Play	File Play Meta file		b) Open Meta f	ile	
82. To use the wi file.	ndows common c	ontrols always	include	h heade	er
a) COMMONCTL	b) COI	MCTL	c) COMMDLG	d) COMM	1CTL
83. You can obtai	n the state of Shif	t kevs by using	Mant	1/2 function.	
a) Get Key State()	h) Key	get Value()	c) Get Sta	te() d)	Get Status/)
a) Get key State()	b) Key	get value()	c, det sta	ic()	det status()
84. Entry point fu	nction of a DLL is		<u></u>		
a) Main()	b) DLL Main()	c)	Start DL <mark>L()</mark>	d) Run DLL ()	
85	is a functio	n f <mark>or creati</mark> ng	a Thr <mark>ead.</mark>		
a) New Thread()	b) Thr	ead () c)	Cre <mark>ate Thre</mark> ad Inst	ance () d)	Create Thread (
)					
86. Pick up one o	f the testing meth	ods given belo	w that is part of w	hite-box testing:	100.
a) Equivalence par	titioning	b) Boundary va	alue analysis	c) Basis path te	sting
			fur		
a) Paint Icon()	b) Paste Ico	on () c)	Draw Icon()	d) Load Icon ()	
88. You can creat	e a logical font by	calling which	of the following fu	nctions.	
	= -	_	c) Create		d) New Font
89. Dynamic Link	ed Library is loade	d in the memo	orv at		
-	b) Run time		· ———	d) Compile Tim	e.
.,	5,	-,		.,	
90. Menu is					
a) GDI Object		c) I	Picture	d) Item	
,	, 1555 an 55	٠, ٠		,	
91. Which API cal	l is used to check	what type of d	lata available in cli	oboard.	
a) Is Clipboard For		-71		Contain Data ()	
c) Is Type of Data (d) Set Cl	ipboard Data ()	()	



92. Following opt	-		_		
a) MM_ISOTROPI	C b) N	1M_TEXT	c) MM_B	BITMAP	d) MM_HIMETRIC
93. Following is r	not a type of dev	vice context			
a) Screen Device (indow Device C	Context	
c) Client Area Dev			ew Device Cont		
c) cheft Area Dev	ice context	u) vic	.w Device cont	CAL	
94. Following is n	ot a raster opera	ation.			
a) R2_COPYPEN		b) R2_XOR0	COPYPEN		
c) R2_NOT		d) R2_YES			
95. Every instanc	e of a running n	rogram is	0	of virtual ad	ldress snace
			d) 64 MB		aress space.
a) 4 GB	b) 2 GB	C) b GB	u) 64 IVIB)	
96. Default size o	f heap is				
a) 2 MB	b) 1 MB		c) 32 MB	d)	None of the above
,	Shri	ram	VIO	ntri	None of the above
97. Following is n	ot a hitman rela	ted API call			
a) Paste Bit ()	V. A		etch Blt ()	d) Dat B	pl+ ()
a) Paste Bit ()	b) bit bit ()	C) Stre	ettii bit ()	u) Pat E	11. ()
98. Windows Me	ssage contains f	ollowin <mark>g info</mark>	rmation.		
a) Visible property			ption of windo	w	
c) Handle of wind			oot class of a wi		
.,					
99.	is a lowest pri	ority message	e in Windows P	rogrammin	g. (Win 32 Programming)
a) WM_PAINT b)		. A	c) WM CHAR	Λ.	<i>F</i> 1
<u> </u>			, , , , , , , , , , , , , , , , , , , ,	<u> </u>	
100. SetROP2() fu	unction is used t	o change the	Raster Operati	on the Dev	ice Context. a)
True	b) False		c) Not Alw	vays	
101. Create Enh N	Meta File return	s handle of th	ne metafile a) ⁻	True	b)
False	c) N	ot Always			
102. Clipboard ca	n store 'n' no of	formats at a	time		
-	b) False	TOTTITALS at a		W2V6	
a) True	b) raise		c) Not Al	ways	
103. If 4 window	s are running in	a single appl	ication then the	ere are 4 N	lessage Queues.
a) True	b) False		c) Not Al	wavs	_
α,σ	37.3.55		5, 11517	,0	
104. With Create	e Window		and		functions are
	olay the window				
a) Display Windov	-		b)	Show Wind	dow(), Dialog Box()
	• • •	7 7	•) . Repaint Window ()

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105. The Wi	ndows system	32 directory co	ontains files	which provides	s function to user application t	0
perform	certain task ir	n the windows	environmen	t.		
a) GDI32.DL	L b) KERNI	EL32.DLL	c) USE	R32.DLL	d) WIN32.DLL	
_		ne application a				
a) Applicatio	n Layer	b) GDI layer	r c	c) Data Layer Sl	hell Layer	
_						
	_	_		•	he non-client is	
a) WM_RBU			. –	BUTTONDOWI	N	
c) WM_NCIR	BUTTONDOW	N	d) WS_RBUT	TONDOWN		
		OoubleClick mes	=	low must be cr LCLKS d) CS_D	eated with which window styl BLCLK	e?
109. Which	message help	s in detecting	mouse move	ement and find	ling mouse cursor position	
a) WM_MOU	JSEMOVE		b) WM_MO	USEPOS		
c) WM_	ONMOUSEMO		d) None of t	these	• 🛦	
	3/1	rirai	m IV	Tant	<i>r</i> 1 A	
110. When	child Control i	n a dialog box i	is activated v	vindow sends v	which message?	
a) WM_COM	ЛМAND	b) Send Dlg	Item c)	WM_NOTIFY	d) WM_ACTIVATE	
		V /				
		est whether the	- V		x or the window?	
a) Dlg Messa			7	d Dlg Message		
c) Translate	Viessage()		d) Is D	ia <mark>log Mes</mark> sage	()	
442 1441 1			/			
		es a mod <mark>al dial</mark>	7 /	0 = al a l ()	d) Casata Dialas Day()	
a) Create Dia	log()	b) Dialog B	ox() c) Do M	lodal()	d) Create Dialog Box()	
113. Which	function creat	es a modeless	dialog box?			
a) Create Dia		b) Do Moda	_	c) Dialog Box()	d) Create Dialog Box()	
,	017	,	V	,	, , , , , , , , , , , , , , , , , , , ,	
114. Modal	Dialog Box is c	destroyed by ca	alling which f	unction?		
a) End Dialog	g() b) Destroy	Dialog()	c) End	Dialog Box()	d) End Modal()	
115. Which	function sends	s a message to	controls in a	dialog box?		
_	tem Message(•	d Dialog Messa	age()	
c) Send Dialo	g Item Messag	ge()	d) non	e of these		
116. The re	gister() function	on takes a poin	nter to the W	indlass structu	ire as a parameter a)	
447	CILAD.	Literatur (1940)	A IZEVUS	LIMA MENTE	A(A) - \ T.	
117. WM_0 False	CHAR is a coml	bination of WM	/I_KEYUP and	3 WM_KEYDOV	VN. a) True b)	

118. Only Modeless Dialog box can be moved on the screen. a) True

b) False

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119.	The ID valumessage.		hild window is pass b) False	sed by Param Parameto	er with the
120.	In which me	essage it is	better to initialize	all the controls with in	the dialog box.
a) W	M_CREATE	b) \	WM_INITDIALOG	c) WM_INIT	d) WM_COMMAND
Spec	The Copy M cified File py Meta File		nction copies the c b) Create Meta Fi d) Copy Data Get		rmat Meta File to a)
122. a) Tri		essage De b) F		ction that translates to	an ANSI Character
123.	Screen Coor	dinates ar	e pixels measured	from the upper left cor	ner of the window's client area
a) Trı	ıe	b) F	alse	Marate	
124.	Select Obje	ct functio	n obtains an object	from Device Context	a) True b) False
125.	Create pen	Return ha	ndle to Old Pen a	True	b) False
126.	Which func	tion use to	copy file fr <mark>om one</mark>	Device context to and	other
127.	Device Con	text Bit Cr	eate Com <mark>patible</mark> Do	Copy Copy Bit	
	Handle to B		ACCEL	c) HDC d) HE	BMP
129.	To Create Th	nread Fund	ction used is		
a) Be	gin Thread	b) C	reate Thread	c) do Thread	d) Create
130.	_	ΓΕ Messag False	e is generated afte	r Window is Displayed	a)
131.	The Thread	Control P	anel is capable of p	erforming the followin	g
	tting Thread suming Threa			b) Suspending a Thread) Terminating a Thread	
132.	Which value	s are used	I to Set thread prio	rity	
a) 15		b) -2	c) 4	d) -1	
133.	To display a	modeless	dialog which prope	erty u have to add in its	resource files?

c) WS_VISIBLE

b) WS_SHOW

a) WM_SHOW

d) WS_DISPLAY



134. A Mouse Click or	า Menu Bar generates	:	
a) WM_COMMAND	b) WM_NOTIF	c) WM_CHAR	d) WM_MENUCLICK
135. Change in the size	e of the status bar ge	nerates:	
a) WM_RESIZE	b) WM_SIZE	c) WM_CHANGE	d) WM_COMMAND
136. Get Text Matrix a) True b) Fa		sical diminution of the f	ont currently selected in the Do
137. Begin Paint() Pro	epares the windows c	lient area for painting.	a) True b) False
138. Rectangle funct	ion takes :		
a) 2 Parameters		c) 4 Parameter	d) None Of the Above
			efore it can be used to create a
a) True	b) False	n Mant	ri
140. To halt the exect a) Kill Thread() 141. The following are a) Analysis b) Desig	b) Suspend Thread <mark>(</mark> e the steps of SDLC) c) Terminate Thread(d) None of These
141. The SDLC Model requirements is	most suitable for larg	e projec <mark>ts with c</mark> lear kno	owledge & priority of
a) Spiral Model	b) Incrementa	al Mo <mark>del</mark>	
c) Waterfall Model	d) Prototyping	g Model	
142. Which of the foll	owing is not true abo	ut the Waterfall Model?	
a) It is suited for small	projects	b) It does not consid	ler risk handling
c) It gives efficient sta	ff utilization	d) It needs clarity o	f requirements at start.
143. Prototyping in so	oftware process may in	nvolve	
a) Throw - away proto	typing b)	Evolutionary	
c) Both a and b option	s d)	None of these	
144. Which of the foll	owing model may req	uire largest deployment	of manpower a)
Incremental Model	b) Wat	erfall Model	
c) Component Assemb	ly Model d)	RAD Model	
	he lifetime of a progra c) Design d) Test		phase a) Maintenance
W/ Milalysis	o, ocombin ujicat	ש'''ס	



Phase	b) Design	c) Documentation	d) None of the above
147. Which of the foll	owing is seen in the	DFD but not in the Conte	kt Diagram
a) Data Sources	b) Data Flows	c) Data Stores	d) Users
148. Data flow cannot	take place between		
a) A store & a process	b) Exte	ernal entity & process	
c) Store & an external	entity d) Pro	cess& process	
149. "Balancing of DF	D" is means		
a) Conservation of in	nputs & outputs at	various levels	
b) Sub dividing a pro	cess into smaller su	b processes	
c) Labelling of all dat	ta items		
d) Allowing data flow	vs to take place only	to or from processes	
150 Δ data flow diag	ram is not a	7 /	• A
		h) Good guide	to a system
,,			
151. DFDs, decision ta	ables, decision trees	are tools of	
a) Requirements analy		o) Requirements modelling	
c) Software Design		d) All of the above	
152. Which model use	ed to show dat <mark>a pro</mark>	<mark>ces</mark> sing at d <mark>ifferent</mark> levels	of abstraction from fairly
abstract to fairly o	detailed ?		
a) Semantic Data Mod	dels b) O <mark>bject Mo</mark>	odel c) D<mark>ata Flow</mark> Models	d) Service Usage Models
153 Models	describe the logical	structure of the data which	h is imported to and exported
	describe the logical	structure of the data wille	
	emantic data	c) Data flow	d) None of the above
154. Which of the foll	owing is true about	E-R Diagrams?	
			icates cardinality of relationships
c) It indicates modality		·	he above
155. Which of the foll	owing is not a chara	cteristic of a good SRS doo	cument?
a) Unambiguous	b) Verifiable	c) Redundant	d) Consistent
150 Find the edd one			
		Alachraic Chaoification	
•		· -	
c _j z specification	(a, Data i iOW Diagidili	
157. Which is the mov	st undesirable form	of cohesion from the follo	wing options
		c) Temporal	
a) Conservation of it b) Sub dividing a pro c) Labelling of all dat d) Allowing data flow 150. A data flow diagra a) Logical model of a sc c) Representation of t 151. DFDs, decision ta a) Requirements analy c) Software Design 152. Which model use abstract to fairly of a) Semantic Data Models by the system. a) Object b) Software Design 154. Which of the foll a) They consist of objec) It indicates modality 155. Which of the foll a) Unambiguous 156. Find the odd one a) Axiomatic Specification	nputs & outputs at a cess into smaller such a items were to take place only ram is not a system he physical	b processes to or from processes b) Good guide d) All of these are tools of c) Requirements modelling d) All of the above cessing at different levels cessing at different levels codel c) Data Flow Models structure of the data which c) Data flow E-R Diagrams? b) It ind d) All of the different levels contacteristic of a good SRS door c) Redundant c) Algebraic Specification d) Data Flow Diagram of cohesion from the follo	of abstraction from fairly d) Service Usage Models th is imported to and exported d) None of the above icates cardinality of relationship the above cument? d) Consistent



158.	. The external inte	rface design pr	ocess should be		a)
Dev	eloper centered		b) User centered	d	
c) Ad	ministrator center	red d)	Management ce	entered	
	. Which of the follo	owing is true w	ith respect to fui	nction oriented &	object oriented design
a) T	hey vary in the bas	sic abstractions	they use		
b) T	hey vary in the wa	y state informa	ntion is maintaine	ed	
c) T	hey vary in the wa	y functions are	grouped		
d) A	ll of the above				
160.	. In which of the fo	ollowing phases	of a use-case dr	riven process do y	ou think use cases have a
ı	role? a) Requireme	ents capture b)	Analysis c) Desig	gn d) Implementat	ion e) Test
a) A,	B & C	b) A, B, C & D	c) B & I	D d) A, B,	C, D & E
161.	. Which of the follo	owing is NOT tr	ue about comme	ents	Α
b) C	omments should u	ise problem do	main terminolog	BY OF TO 4 TO	: 🛕
b)	omments should under the should expla	in the code at	crucial places on	ly CLITTLE	
c)	They should be us	ed to documer	nt chan <mark>ges to th</mark> e	code	
d)	They add up to th	e LOC size of t	he software		
,					
162.	Use of coding stan	ndards			
	Eases the task of ir		oftware modules		
•	Enhances the softw	<u> </u>			
•	Enhances reusabili	(V)	, , , , , , , , , , , , , , , , , , ,		
-	All of these option	-			
ω, .	an or these option				
162.		is a programm	ing method which	ch combines data	and instructions for
	processing that da				
	odular programmi			down design	1 0
-	ject oriented prog	_	•	ıctured programm	ing
•	,		,	1 0	J
163.	. A test case design	n technique tha	at makes use of a	knowledge of the	e internal program logic
	ack Box Testing	· ·	e Box Testing	c) Unit Testin	• • • •
,		,	· · · · · · · · · · · · · · · · ·	5, 5	8 .,
164	. Black box test cas	ses can he deri	ved from		
	urce code	b) Flowchart		Document	d) Pseudo code
u, 50	aree code	b) Howellart	c, sns	Document	a) i scado code
	. Which of the follo Analysis?	owing is true al	oout Boundary V	alue	
	-	a docigning bla	ck hay tast sasas		
a) I	It is an approach to	o designing bla	rv nav rest cases		
b) I	It is complementar	ry to Equivalen	ce Class Portioni	ng	
•	•	•			es d) All of the above
		· -			

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166. Cyclamate comp	lexity is calculated	from		
a) Data Flow Graph		b) Structure C	hart	
c) Control Flow Graph	d) All	of the above		
Program a) It is an indicator of b) It gives the maxim	f the structural con um no of independ	nplexity of a pr lent paths in a	_	d) All of the above
168. Effective Softwa				
a) People b) Pr	roblem	c) Process	d) All of above	
Configuration Manage b) Risk Management P	ement Plan lan	b) Quality <i>i</i> d) Requ	e SPMP document? a) Assurance Plan irements Elicitation Plar	
			OC count is dependent of	
a) Team Size b) P	roject Duration	c) Progra	amming Language	d) Cost Drivers
171. The critical patha) The path with theb) More than one unc) Path on which anyd) Path with same ea	longest duration ique path y delays are allowe	ed	vates	
172. Which of the followa) Performance		e Risk Compon c) Schedule	d) All of the abo	ove
c) The difference be	the activity tween the earliest etween the latest f	inish time and	l earliest start time the earliest finish time he earliest start time	
174. According to the peaks during the _	= -	a software pro	ject follows the Rayleigh	ı-Norden curve and
a) Detailed design	b) Coding 8	Unit testing		
c) Integration Testing	d) System T	esting		
175. Arrange the follo Identification c. A	_	isk Assessmen	t in the correct sequence	a. Prioritization b.
a) b, a, c	b) b, c, a	c) a, b, c	d) c, a, b	

176. Risk of unrealistic estimates & schedules can be overcome by

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b) Developing a cultu	ure of software reus		nan juugme	ental methods	
c) Performing multis	ource estimations				
d) All of the above					
177 Under SCM the va		•			
a) By their respective a		-	-	priate team	
c) In a central project	database	d) A	II of the ab	ove	
178 Cleanroom Softw	•				
a) Formal Specification	n b) Static Vei	rification	c) Statistic	al Testing	d) All of the abov
179. Which one of the	=				
a) Decision table	b) Structure Engli	sh	c) Finite a	utomata	d) Binary tree
180. c from the relation	•				
a) Productivity=KLOC/	w			=KLOC/defect	
c) Productivity=KLOC/I	arirai	m^{d}	roductivity	=KLOC*perso	n-month
181. The goal of codir	- \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	la). Ta wa ali			
a) To reduce the cost of	\ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		ice the cos	t of maintena	nce
c) Both a & b		d) None			
182. Bottom of Form					
Top of Form					
Broad design of modu	iles & their rel <mark>ations</mark>	<mark>shi</mark> ps is ca	lled		
a) External design	b) Detaile <mark>d desigr</mark>	1	c) Archite	ctural design	d) Process design
183. The choice of the depends on	e Software Developr	ment Life	Cycle Mode	el to be follow	ed for a project
A) Initial Clarity of Req	uirements	B) Si	ze of the Pr	oiect	
C) Time Frame of the F		•		chnical Issues	
a) A, B & C only	<u>-</u>			d) A & D on	
184. The SDLC Model	most suitable for sn	nall proje	cts with cle	ar requiremei	nts is
a) Spiral Model	b) Incremental Mo	odel c) W	aterfall Mo	odel	d) Prototyping Model
185. The Linear Seque	ential or Classic Life	Cycle is al	so called		
a) Waterfall Model	b) Incremen	ntal Mode	l c) Spiral i	model d) Prof	totyping Model
186. The waterfall mo	del of the software	process o	onsiders ea	ich process ac	ctivity as a
a) Separate	b) Discrete	c) Both a	and b optio	ns	d) None of the above

187. Which of the following is not a feature of RAD

a) Well understood, constrained & modularizable requirements

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b) Component based construction & use of 4 GL c) Use of multiple teams each developing separate function d) Project has high technical risks 188. In the Spiral model the radius of the spiral at any point represents a) The level of risk b) The progress made in the current phase c) The cost incurred in the project till then d) None of these uses powerful development software and small, highly trained teams of programmers. b) RAD c) Coding d) Modeling a) Prototyping 190. Planning the modular program structure & control relationships between modules is called a) Architectural Design b) High Level Design c) System Design d) All of the above 191. Designers should aim to produce strongly ____ and weakly _ a) coupled, functional b) Maintainable, cohesive c) Cohesive, coupled d) Coupled, cohesive 192. Use of global data areas or global variables may lead to a) Stamp Coupling b) Common Coupling d) Control Coupling c) Content Coupling 193. Function oriented design process consists of a) Data Flow Design b) Structural decomposition c) Detailed Design d) All of the above 194. Transform Analysis performed on a DFD identifies the a) Afferent Branch b) Efferent Branch c) Central Transform d) All of the above 195. The two questions "Are we building the right product?" &"Are we building the product right?" correspond to a) Verification only b) Validation only d) Verification & Validation respectively c) Validation & Verification respectively 196. Which of the following is not a White box testing method a) Statement coverage b) Error guessing c) Path coverage d) Condition Coverage 197. A Test case includes c) Information of function under test a) Input b) Expected output d) All of these options

198. A stub is a dummy verion of the ____

b) Subordinate

a) Superordinate

d) All of the above

____ module of the module under testing

c) Coordinate



199. A driver is a dum	my version of the	module of t	he module under testing a)
Superordinate	b) Subordinate	c) Coordinate	d) All of the above
200 exerc	cises the system beyond	its maximum desig	n load
a) Thread testing	b) Stress Testing	c) Back to back tes	sting d) All of the above
201. Presenting the sa a) Thread testing		ersions of the syster c) Back to back te	m and compare outputs is called sting d) All of the above
202. Which of the foll	owing is not a part of Pr	oject Plan?	
a) Risk Management P	lan b) Personr	nel Plan	
c) Project Mentoring P	lan d) Softwa	re Architecture Pla	nning
	owing is true for two pro	ojects of same cate	gory with the same estimated LOC
A) The initial effort e	stimate for both project	s will be same as bo	oth have same LOC
B) The Effort Adjustn	nent Factor will always b	e the same for bot	h projects
	timate will always be the		
			either A, B or C are true.
204. In COCOMO tern	ninology a project with s	oftware being stro	ngly coupled to complex hardware
& stringent regula	itions on operatin <mark>g proc</mark>	edures is categorise	ed as
a) Organic b) Se	emidetached	c) Embedded	d) Application
205. The minimum ti	me required to finish the	e proje <mark>ct can be</mark> est	imated by considering the
path in the activity	A STATE OF THE STA		
a) Shortest	b) Longes <mark>t</mark>	c) Average	d) SPT
206. PERT/CPM canno	ot be used for		
a) Scheduling of projec	cts	b) Monitoring & C	Control of projects
c) Optimizing Resource	e Utilization	d) Quality contro	l of products
207. Democratic team	n structure is suitable for	r projects	
a) With strict deadline	s b) W	ith clearly known r/	equirements
c) With research orien	tation d) N	one of these	
			ake any changes to the software
above	unication b) comig	uration Control	c) Base lining d) All of the
209. Configuration Ma	anagement is		
a) Framework activity	•	•	
c) One time activity	d) None of the a	bove	



	ithmetic System Engin	-	Computer Aided Softwar None of the above	e Engineering
211. Requireme	ent phase is usually do	ne by		
a) System Analy	vst b) Syster	m Administrator	c) System Engineer	d) All
	e of the following is no ut b) Number of inter	·-	ameter of function point	: a)
c) Number of file	•	er of output data		
	s the concept which tr	-		
a) Intra-Module	b) Extra-Modu	ıle c) Inner-N	1odule d) Outer-M	odule
214. Functional	approach is also know	vn as		
a) Glass box test	ing b) Black	box testing		
c) Input box test	ing d) Outpu	ıt box testing		
change in re a) Inheritance, I c) Encapsulation 216. Which of t applications a. Clearly defin b. concentrate c. Analyze and d. Leave all soft	equirements doesn't re Encapsulation I, Polymorphism he following steps does? e initial requirements e earl development efformanage risk throughous ware testing until after	equire massive cha b) Inherit d) Polymo you think develope of the system rts on modeling im ut the development or system has been	ance, Polymorphism orphism, Abstraction rs should take to create or plementation mechanism to process implemented	efficient compact
a) a, c	b) a, b	c) a., b, d	d) a, b, c	
217. Which of t	he following elements	combine to form (OOAD method	
a. Notation	b. Diagram	c. Process	d. View	
a) a, c	b) a, b	c) a, b, d	d) a, b, c	
To model syste b. To provide a c.To support sn	he following are aims on using OO concepts process for software chall-scale and large-scale insight into implemen	development ale analysis and des	=	
a) a, c	b) a, b c) a	a, b, d	d) a, c, d	
219. Towards e		e, sho	ould be allocated to sour	ce code
a) Use cases	b) Relationship	os c) Models	d) Classes	

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220. What do you think is the first step you should take in designing any project? a) Design a prototype
b) Create the test cases
c) Define problem domain and produce problem statement
d) Draw up a plan for entire project
221. Which of the following best describes what the problem domain is? a)
Kinds of resources available to development team
b) Surroundings in which system operate
c) Set of all functionality required of a system
d) List of technical details needed to implement project
222. If you are finding hard to identify the name of class and to write definition for it. What thing you should do?
a) Ignore class completely
b) Do more analysis to get a better understanding of what is involved in the class
c) Write a definition for the class even if it is not very good
d) Make it a friend class of some other main class
223. Which of the following statements are true of use cases and use case models? a.
Functionality of a use-case has to be com <mark>plete fro</mark> m start to finish
b. Use case provide developers with clas <mark>ses and o</mark> peratio <mark>ns</mark>
c. Use cases outline functionality of the system
d. Use case models can be used to test the system
a) a, b, c b) a, b, c, d c) a, c, d d) a, c
a) Conceptual design b) Organization of objects
c) Set of actions d) State machine
225. Collaboration diagram represents
a) Organization of objects b) Messages on time scale
c) Conceptual design d) Set of actions
226. State chart diagram
a) Organization of objects b) Conceptual design c) Set of actions d) State machine
227. In OOD primary abstraction mechanism is
a) Function b) Class c) Object d) Hierarchy
228. Incremental model
a) Delivers a system in a series of versions
b) Works with encapsulation and inheritance to simplify flow of control
c) Builds a bridge between user and developer

d) Uses experimental software to better understand user requirements

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229. Prototyping mode	el			
a) Delivers a system i	n a series of version	ons		
b) Builds a bridge bet	ween user and de	veloper		
c) Uses experimenta	l software to bett	er understar	nd user requirements	3
d) Works with encaps	sulation and inher	itance to sim	plify flow of control	
	ents of software a		engineers re-engine of a computing syster	ering is a type of software ms include
B.class diagrams				
C. connectors express	ing relationships b	etween soft	ware components	
D. E-R diagram			•	
a) A, B	b) A, C	c) A, C, D	d) A, B, C, D	
c) Mid-level design	detailed design t of testing? ting b) Blace t of phases of soften b) low level des d) Replication	ack box testing ware developing ion, delivery,	o) Interface design and d) Requirements and ng c) Inner to pment a) installation	design esting d) Gorilla testing
234. Which software can water fall model	b) Spiral m	•	es risk management: c) Incremental model	
,	7, 4		.,	., ,
235. Largest time is sp	ent on which of th	ne software ເ	development phase?	
a) Testing	b) Enhancement		c) Bug fixing	d) Analysis and design
236. Simple SDLC conta) Requirements, andb) Analysis, design, inc) Analysis, design, ind) Requirements, and	alysis, design, imp nplementation, te nplementation, te	sting, deploy sting, mainte	ment enance	
237. DFD is not a				
a) Logical model of sys	tem		o) Good guide to a sy	stem
c) Representation of ph	nysical stream		d) All of the above	

238. Productivity metrics

a) Focuses on the output of the development process.



b) Focuses on the characteristi	cs of the softwa	re.		
c) Provide indirect measure.			d) All.	
239. Which is not a type of mair				
a) Adaptive b)	Corrective	c) Perfective	d	l) Obsolescence
240. Adaptive Maintenance is				
a) To improve the system in so	me way by chan	ging its basic funct	ionality	
b) The maintenance due to ch	anges in the env	rironment		
c) The correction of undiscove	red system erroi	rs .		
d) None of the above				
241. Which of the following acti requirement Specification?	ivities involves c	noosing a system s	tructure capable	e of satisfying the
a) Requirements Analysis	b) Design	c) Codin	g d) Testing
242. Reliability in a software sys	stem can be achi	eved using the foll	owing strategies	s, EXCEPT a)
Fault avoidance b)	Fault tolerance	71.//		•
b) Fault detection d)	Fault rectificatio	Mant	771	
243. The Software Developmen	t Life Cycle <mark>cove</mark>	rs activities from		
a) Feasibility Study to Installation	۱ /	b) Requireme	<mark>nts Pha</mark> se to Tes	sting
c) Requirements Phase to Mainto	enance	d) Pr <mark>oject Ini</mark> ti	ation to Softwai	re Retirement
244. Identify the true statemen	ts about using a	process for softwa	re development	a)
Processes usually divide softwar			^	.,
b) Processes provide guidelines			velopment	c)
Processes are used o				
1) a and c 2) a and	b 3	a, b and d	4) a, c	and d
245. Process visibility is enhance	ed by			
a) Defining clear cut phases		Producing docum	ents related to	each phase
c) Conducting reviews & checks	d	All of the above		
246. Which of the following acti	vities is not con	sidered as "Umbre	lla Activity" a)	
S/W Quality assurance		b) Software De	sign	
c) S/W configuration manageme	nt d) S/W Project Mon	itoring & Contro	ol
247. What is the primary purpo	se of the first sta	nge of software and	alysis and desigr	n? a)
Determining system deploymen		riting code		
c) Capturing requirements	d) Building GUIs		
248. SDLC starts with	stage			
a) User Requirement and Analys	s is b) Deployment	c) Testing	d) Design



whereas the	takes an approact	n to the system, ignoring	tils inner workings
	approach, making de	ecisions on how the mod	el will be implemented in
code	, , , , , , , , , , , , , , , , ,		
a) White box & Black box	b) Black box 8	White box	
c) Top-Down & Bottom-U	p d) Bottom-Up	& Top-Down	
250. The goal of	is to obtain a clear und	lerstanding of the systen	n and its shortcomings
and to determine op	portunities for improvem	ent	
a) Feasibility study	b) Systems ar	nalysis	
b) c) Systems definition	d) Systems st	udy	
251. The last step in Syst	em Development Life Cyc	cle is	
a) Analysis	b) Implementation	c) Testing	d) Maintenance
252. The ph	ase of the systems life cy	cle contains periodic eva	aluations and updates of
the system			Α.
preliminary a) Investigation c) Systems implementatio	A TATITA CU TAA	Maratui	
a) Investigation	b) System	ns analysis	
c) Systems implementation	on d) S <mark>ysten</mark>	ns maintenance	
253. During the	phase, the applic <mark>ation is v</mark>	verified against the requi	rements
a) Analysis	b) Design	c) Te <mark>sting</mark>	d) Implementation
254. The type of softwar	e maintenan <mark>ce which</mark> is d	lone to add new feature	s to the product is called
a) Corrective Maintenan			\
c) Regressive Maintenanc	e d) Perfe	ct <mark>ive Main</mark> tenance	
255. Because of the casc process is known as	ade from one phase to ar	nother, the model of sof	tware development
a) Evolutionary model	b) Formal mod	۵۱	
c) Waterfall model	d) None of the		
o, traterial mode.	a, wone or the		
256. Prototype may be us	ed for		
a) Risk Reduction	b) Requiremer	nts Elicitation	
c) User Interface Design	d) All of the al	bove	
257. RAD Model is high s	peed implementation of		
a) Waterfall Model	b) Spiral Model		
c) Prototyping model	d) Component Assen	nbly model	
258 means to	o build a model that can b	oe modified before the a	ctual system is installed
a) Maintenance above	b) Prototyping	c) Implementation	d) None of the



259. A requirement if		on or			
a) Functionality to be p	rovided	b) Constraint	on the software		
c) External interface		d) All of the a	bove		
260. DFD gives idea a	bout flow of	& flowch	art gives idea of th	ne flow of	a
Processes, decisi		Control, data	=		a, control
261. Data Models do	not consider				
a) Attributes of the dat	a object	b) Relati	onships between	data objects	
c) Operations that act o	on the data	d) Any o	f the above		
262. Notations used to details of a softwar Structure Charts	•				processing
a) I and II Only	b) III Only	c)	I, II and III	d) None of t	he above
263. Formal specificat	ion language cons	sists of			
a) Syntax	b) Semantics	c) Set of	relations	d) All of the	above
264. The software arch	nitecture is best re	epresented by			
a) Context Diagram	b) Flow Cha	art c)	Structure Chart	d) Data Flov	v Diagram
265. Using	a programmer o	can detail the lo	og <mark>ic of the</mark> progran	m	
a) Pseudo code	b) Software		ext diagram	d) Data flow	, diagram
a) Fseudo code	b) Software	e c) conte	ext ulagi alli	u) Data How	/ ulagraffi
266. Which of the follo	owing is not true a	about a flow ch	art? a)		
It shows the flow of co	- VI AV				
b) It is a tool for detail	ed design				
c) Data interchange is	not represented				
d) It clearly separates	various modules	of the softwar	e		
267 involves	modeling a syste	m as a set of in	teracting function	nal units. a)	
Object oriented decon	= -		=	•	
c) Functional decompo					
268. Typographical er	rors and/or incor	rectuse of the	nrogramming land	guage is referre	ad to as
a) Logic errors			un time errors	d) A bı	
269. Testing of softwa					
a) Designing	b) Implementation	on c)	Deployment	d) Cod	ding
270. Changes made to	the software to a	accommodate o	changes to its envi	ironment is cal	led a)
Perfective maintenance	e	b) Regressi	ve maintenance		
c) Adaptive maintenan	ce	d) Corrective	maintenance		



271. Major changes m	nade to software afte	r long period	ls is also called softw	are reengineering or
a) Perfective mainten	ance	b) R	egressive maintenar	nce
c) Adaptive maintenan	ce	d) Correc	ctive maintenance	
272. Function Point C	ount is dependent on	1		
a) Platform & Technological	ogy	b) Team	Size	
c) H/W & Software Res	sources	d) Featu	res & Functionalities	
	ninology a project wit developed is categori		el of staff experience	& part familiarity with
a) Organic	b) Semidetac	hed	c) Embedded	d) Application
274. The value of COC	COMO cost driver attr	ribute for hig	her than average Pro	ogrammer Ability will
a) Greater than 1	b) Equal to 1		c) Less than 1	d) None of
these 275 And _	are graphical no	tations whicl	n are used to illustrat	e the project schedule.
a) Bar chart and DFD	LININGER	(b) E	RD and Bar chart	
c) Class diagram and a		d) Bar ch	ar and activity netw	orks
276. Risk Assessment	Table is based on cat	tegorization l	ру	
a) Risk Components	b) Risk Imp <mark>ac</mark>	ct c) Both a	and b options	d) None of the above
278. Risks arising out	of frequent change re	equests are b	pest mitigated by a)	
User characterization	b) Strong SCM	1		
c) Multisource estimat	ions d) Preso	cheduling key	<mark>/ pers</mark> onnel	
279. Automated SCM	tools help solve prob	olem of		
a) Inconsistencies of So	Cls	•	Concurrent access to	SCI
c) Instability of develop	pment environment	d) /	All of these options	
280. As per SELCMM	organizations which (do not have a	anv KPAs present & s	table are considered at
a) Level 1	b) Level 2	c) Level 3	•	
,	-,	,	-, -	
281. In which of the fo	ollowing phases of us	e-case drive	n process do vou thir	nk use cases have a
role?	2		process are year arm	
a. requirement captu	ure			
b. analysis				
c. design				
d. implementation				
e. test				
a) a, b, c	b) a, b, c, d	c) b, d	d) a, b	. c. e
-, -, -, -	-, -, -, -, - ,	-, ~, ~	-, -, -	, -, -
282. Sequence diagra	m represents			
a) Organization of obje	•	Messages o	n time scale	

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c) Conceptual design	d) Set	of actions	
283. Analysis takes pla	ace from pe	erspective and design ta	kes place from
a) User, user	b) User, developer	c) Developer, user	d) Developer, developer
	phase of SDLC aims at evelopment		uct is as per requirements. d) Deployment
c) Delivers a system	cion ween user and develope		rol
a) True	orporates risk manageme b) False ment is not a part of vers	Mantr	i 🛕
a) True	b) False	on management	A
288. Data flow diagrama) True	ms are part of desi <mark>gn pha</mark> b) False	se of SDLC	
289. Which is an itera constructing softw		ch the <mark>require</mark> ments are	translated to "blueprint" for
a) Testing	b) Requir <mark>ement an</mark> alysis	c) Design	d) Maintenance
290. What manifests i algorithm is	n the patterns of choices	made among alternativ	e ways of expressing an
a) A data flow diagram	b) Coding style	c) A data dictionary	d) A flow chart
b) Is a set of planned	given requirements for c	actions to provide conf	ease idence that the product or
292. Which of the following process?	owing types of test plans	is most likely to arise fro	om requirement specification
a) System integration t c) Sub-system integra	- .	b) Acceptance test d) Module test pla	•

293. In project planning first thing is

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a) Set objective or goa	I	b) Develop strategies a	and policies
c) Decision making		d) Find out requiremen	nt
294. Which of the follo	wing is not part o	of spiral model?	
a) Planning		b) Customer communi	cation
c) Project documentati	on	d) Engineering	
•	_		rt of white-box testing a)
Euivalence partitioning	•	y value analysis	
c) Basis and testing	d) De	ebugging	
296. Following are the an order.	different steps th	nat is to be followed in o	design methodology arrange them in
a) First level factoring	b) fac	ctoring of input	
c) Restate the problem	d) Ide	entifying the input and	output
a) a, b, c, d	b) c, d, a, b	c) a, d, c, b	d) a, c, b ,d
C	Luina	m Mar	1101
297. COCOMO is an eff	fort estimation m	odel in terms of	
a) Cost	b) Person- Mont	c) Both	d) None of the above
298. Pick the odd one	out		
a) Component assembl		b) Spiral Model	
c) Incremental Model	y model	d) Iterative Mod	el
•	ents Phase record		ents of a software system does not
include which of th		- /	/
a) User Interfaces	7	oftware Interfaces	
b) c) Hardware Interfa			
300. External Entities in	=	•	C) Handware D) Databases
A) People	•	oftware Systems	
a) Only A & D	b) Only B & C	c) Only A, B & D	d) A,B, C & D
301. Example of a Sem	antic Data model	is	
a) Data flow diagram b) Context Diagran	o c) Entity Rela	tionship Diagram d) All of the above
202 A system develop	ad to give and us	ars a comercite impressi	an of the system canabilities is called
	_	·	on of the system capabilities is called
a) Semantics	b) Model	c) Prototype	d) Abstraction
303. Planning the solut	ion to a program	ming problem using a s	tructured technique is called
a) Coding	b) Compiling	c) Modeling	d) Design
304. Conception & plan	nning out of exte	rnally observable chara	cteristics of a software is called a)

b) User Interface Design

External Design



c) Both a and b options	d) None	of the above		
305. A way of indicating Procedural Abstraction	n b) Data Abstra	action	the actual mechani	sm a)
c) Control Abstraction	d) None	of the above		
306. The number & co a) Modularity	mplexity of intercon b) Cohesion		o modules is an ind d) Abstraction	
307. The method of deal a) Factoring	<u> </u>	chart from the DFD is		the above
308. Which of the followard there should be only of the by There should be at	one module at the to	р	·	
c) The sequence or o		epresented		
d) All of the above309. A programmer m	hriran	n Man	tri	
309. A programmer m rules are called:	ust follow the rules f	or coding a particula	r programming lang	uage. These
a) Pseudo code	b) Iteration	c) Syntax	d) Documenta	ation
310 is the praction a) Editing 311. Changes made to a) Perfective maintenance) Adaptive maintenance	b) Correcting the software to extende b)	c) Debugging	d) Testing inal functionality is cance	called
312. COCOMO is categ	gorizes as a	estimation tech	nnique	
a) Heuristic	b) Empirical	c) Analytica	l d) None	of the above
313. Which of the followstaffing Pattern peaks b) Schedule compress c) Expanding the sched d) All of the above 314. RMMM is a Risk Mark Risk avoidance by developed to the continuous risk mode. b) Continuous risk mode.	at Coding & Unit tession increases effort edule gives extreme Management methodeloping a risk mitigate onitoring throughout	iting in proportion to four saving in effort dology which focusse tion plan	es on a)	ng d)
All of the above	The field which they	a reality by t	.cocho, planimi	·o ~ /



a) Its technical merit c) Side effects	•	t & schedule im of these option	•	
316. Software quality	managers are respo	onsible for	<u>.</u>	
a) Quality assurance	b) Quality pl	anning	c) Quality control	d) All of the above
317. Which of the foll data inputted b. GUI component	owing are possible	actors? a.		
c. Another systemd. A printer				
<u>-</u>	b) A, B, C, D	c) A, B, D	d) A, C	
318. UML can be used a) True	d as a way to represo	ent only OO so	ftware systems	
319. Use cases can be a) True	included in any typ b) False	e of collaborat	ion diagrams.	
320. Which of the foll	owing is reason of p	project failure?		
a) Finite resources				
b) Inaccurate estima	ates of cost and ti <mark>m</mark>	e		
· · ·	eting to do the j <mark>ob c</mark>	heaper and fas	ter	
d) None of the abov	e			
321	is method for estin	nating software		
a) COCOMO		ction point ana		
c) Use case estimation	d) All d	of the above		
322. Pick up odd one	out of the following			
a) Component assemb	oly model	b) Spiral mode	I	
c) Incremental model		d) Iterative mo	odel	
323. Parts of design p	rinciple are			
a) Correctness, robu	• •	• •		
•	stness, efficiency, f		-	
•	ness, robustness, ef	• •		
d) Flexibility, correct	ness, robustness, ef	nciency, securi	ιγ	
324. Which of the follo	owing can be a reaso			
a) Finite resources		•	accurate estimates o	
c) Others competing t of the above	o do the Job cheape	er & faster.	d) N	lone



325. An approved fea	sibility study is a deliv	verable out of			
a) Systems design	b)	Preliminary inves	tigation		
c) Systems developme	nt d) Systems analysis			
326. Checklists, grid c	harts, and decision ta	ables are all tools u	sed in the	step	a)
Preliminary investigat		tems analysis		·	•
c) Systems developme	nt d)	Systems impleme	ntation		
327. The present systo	em is studied in dept	h during the	phase	e of the systems life	e cycle.
a) Preliminary investig	gation b) Systems a i	nalysis			
b) Systems design	d)	Systems developn	nent		
328. The SDLC Model technical risks is	most suitable for sm	all projects with ur	nclear require	ements is but not r	nany
a) Spiral Model	b) Incremental Mod	del c) Wateri	fall Model	d) Prototyping N	/lodel
329. Arrange the follo	wing Requirements s	sub phases in the c	orrect order	A	
A. Documentation	3. Analysis / C. Va	lidation D. I	Elicitation		
a) A, B, C, D	b) D, B, A, C	c) [O, C, A, B	d) B,	A, D C
330. Automated CASE	tools like PSL/PSA de	o not help in			
a) Requirements Docu	mentation	b) Requiremen	<mark>ts V</mark> alidation		
c) Requirements Analy	sis	d) Requiremen	<mark>its Elicitation</mark>	1	
331. The requirement	engineering process	has the following	stages, excep	ot a)	
Feasibility study		uirement analysis			
c) Implementation	d) Requ	irement definition			
332. Concept of Abstr	action is used in				
a) Requirements phase	b) Desig	gn Phase c) T	Testing Phase	d) All of th	ie above
333. The number of si	ubordinate modules	controlled by a mo	dule is called	lits	
a) Control range	b) Fan out	c) Fan in		d) Width	
334. If two modules p	ass a data structure a	across their interfa	ce they exhib	oit	
a) Stamp Coupling	b) Data Coupling	c) Content Cou	gnilqu	d) Control Coupl	ing
335. The strength of r	elationship between	which of the follow	wing element	ts of a module is ex	xamined
to evaluate modul	e cohesion				
a) Function declaration	ns, function definition	ns& calls	b) Variable	e declarations	
c) Data definitions			d) All of th	ne above	
336. The graphical too	ol commonly used to	represent the syste	em architect	ure is called	
a) Context Diagram	b) Structure Chart	c) Archite	ectural Plan	d) Event Ta	able



337. The value of CO be	COMO cost driver	attribute for lo	wer than average	Reliability requirement wi	i II
a) Greater than 1	b) Equal to	o 1 c)	Less than 1	d) None of these	
338. Example of Soft	ware Configuration	n Items (SCI) is			
a) SRS	b) Code	c) User	manual d)	All of the above	
339. Top of Form Wh		g factors of a S	oftware Product	may not contribute much t	О.
a) Understand ability	b) Fl	exibility	c) Security	d) Testability	
340. Your Answer: Tha) Feasibility Study to c) Requirements Pha	Installation	b)	Requirements Ph	nase to Testing on to Software Retirement	ţ
341. Any activity des referred to as a) Maintenance		700	g condition, erro	r free, and up-to-date, is d) Coding	
342. During theacquired and test		he systems life	cycle, the new ha	ardware and software are	
a) Design b) [Development	c) Implement	at <mark>ion</mark> d)	Maintenance	
343. E-R diagrams ar a) Database design c) Architectural design	b) D	ata Dictionary d) Functional			
344. The flow of data	a within a system is	described by a	3		
a) Data flow diagran	n b) Top-down an	alysis c) Syste	em flowchart d)	Decision table	
345. Formal specifica	ntion techniques ar	e based on			
a) Set theory	b) Logic	c) Sequence	d) All of	f the above	
346. Using the name example of	of a sequence of i	nstructions in p	lace of the seque	ence of instructions is an	
a) Procedural Abstrac	ction	b) Data Abstr	action		
c) Control Abstraction	l	d) None of th	e above		
347. Providing a logic representation is		e data object w	ithout concern fo	or the underlying	
a) Procedural Abstrac	tion	b) Data Abstr	action		
c) Control Abstraction	1	d) None of th	e above		

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348. A module whose	e all elements exhi	ibit relationship	which involves both o	data and control flow is
said to be	cohesive			
a) Sequentially	b) Commu	ınicational	c) Temporally	d) Procedurally
349. The afferent bra	nch of the DFD er	ds at the		
a) Most Abstract Inpu	it	b) Most	Abstract Output	
c) Middle of the centr	al transform	d) All of	the above	
Objectoriented softw	are development	is more efficien ogram into obje	t than traditional met ects that contain both	
a) I and II are correct		and III are corre		
c) I and III are correct	•			
351. The if-then-else	construct is an ex	ample of the		
a) Sequencing	b) Selection	c) Iterat	ion d) All c	of the above
352. Proper program parentheses important a) Efficiency of the process (a) Maintainability of the process (b) Maintainability of the process (c) Maintainability (c) Maintainabi	roves ogram	b) Size o	of the program	lank spaces, blank lines,
353. Static verification	n & validation is a	pplied to		
a) SRS b) [)esign	c) Code	d) All of the abov	e
354. Static testing in	volves			
a) Code Analysis	NOT /	alysis c)	Data Flow Analysis	d) All of the above
356. Statistical Testing	g is used for			
a) For statistical softw	are's only	b) Only unco	ering defects	
c) Reliability estimation	on	d) Efficiency e	stimation	
357. Which of the fol	=	e about softwar	_	
a) It follows a botto phase	m up approach		b) Testing is plant	ned after the coding
b) Complete testing defects	is not possible		d) Testing only est	tablishes presence of
358. Which of the fol	lowing is NOT true	e with regard to	Testing & Debugging	
a) Testing includes de	-		b) Debugging inclu	-
c) Testing only establi	shes presence of c	lefects	d) Debugging repa	airs the program defects
359. Purely black box	testing would be	used at which o	of the following levels?	?

b) Module testing

a) Unit testing



c) Integration Testing	C	I) Acceptance Te	sting		
360. Black box testing a) Functional Errors		=	rface Errors	d) All of the	se options
361. Test Data includea) Set of inputsb) c) Information of formation o		•	of expected outpoptions	outs	
362. Testing strategies	s can be				
a) Top – down testing, c) Back – to – back test			ead testing, Stre of above	ess testing	
363. A stub is a dumm a) Superordinate			e of the module c) Coordinate		s of the above
364. Testing done with a) Data testing	n real data is called b) Unified te		- c) Alpha testing	d) Bet	a testing
365. The following are	the testing strateg	ies except			
a) Top-down testing	b) Thread te	sting c) Str	ess testing	d) Verification	on testing
366. An example of an a) COCOMO 367. The Lines of Code a) Compiler Directives	b) FPA e (LOC) size do not i	c) Delphi nclude	7 /	alstead`s Soft d) All	ware Science
368. Repeatable level a) Level 1	as per CMM model b) Level 2	is c) Level 3	d) Le	evel 4	
369. The collection of called		s, procedures, ru	les and associat	ed document	and data is
a) Software	b) Hardware	c) Both	d) None		
370. A context diagram a) Only one process c) At least one process	b) Mor	e than one proce e	255		
371. The spiral model is a) Development type		ement type proj	ect c) Both d)	None	
372. Three major factor	or of software engir	neering are			

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- a) Cost, Correctness, Reliability
- b) Cost, Schedule, Reliability
- b) Cost, Quality, Correctness

- d) Cost, Portability, Reliability
- 373. Data flow can take place between
- a) Process to Process b) File to File c) Process to File
- d) External Entity to Process

- a) A, B, C
- b) B, C, D
- c) A, C, D
- d) A,B,D

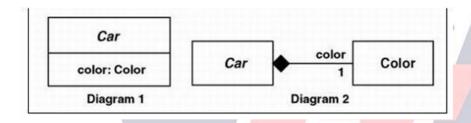
- 374. Match the level testing can work on
- 1) Acceptance Testing
- 2) System Testing
- 3) Integration Testing 4) Unit Testing

- a) Client Needs
- b) Requirements
- c) Design
- d)Code

- 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. The first step in the project planning is:
- a) Size of the product

- b) Select team organizational mode
- 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

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380. A timing constraint placed or development, is an example or	-	e use of a specific lang	uage during
a) Functional requirements		on-functional requirer	nents
c) Requirements definition	•	one of the above	
381. What is a Requirement defin	ition?		
a) What software provides.	b) Requirements	s in SRS	
c) What customer wants?	d) All of the abo	ve	
382. Which of the following is a to	ool in design phase	e?	
a) Abstraction b) Refinem	ent c) Inf	formation hiding	d) All the above
383. The data flow diagram			
a) Depicts relationships between	data objects dep	icts relationships betw	een data objects
b) Depicts functions that transfor	rm the data flow		A .
c) Indicates how data are transfe	ormed by the sys	tem antri	
d) d) Both b and c	WIII I	Mullill	
384. Content testing uncovers			
a) Syntactic errors b) Se	emantic errors	c) Structural errors	d) All of the above
385. Which of these are standards	s for assessing sof	tware processes?	
a) SEI R b) SPICE	c) ISO 9001		and c
386. Methods of Project Monitorin	ng are		
a) Time sheet b) Earned v	value method	c) Design Constraints	d) Both a & b
387. Risk projection attempts to ra	ate each risk in tw	o ways	
a) Likelihood and cost		b) Likelihood and imp	
c) Likelihood and consequences		d) Likelihood and expo	osure
388. Effective risk management pl	lan needs to addr	ess which of these issu	es?
a) Risk avoidance b) Risk mo	nitoring	c) Contingency planni	ng d) All of the above
389. To quantify a risk we need to	do the following		
a) Determine the possibility of risk	_		b) Both a and b.
c) Determine consequences of the		ted with that risk.	d) None of the above.
390. Deliverable for a software Pro	oiect is		
a) Source Code	0,000 10	b) Design Documents	
c) Requirement Documents and T	est Plans	d) All of the above	
-,,,		. ,	

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391	. Scoping is done durir	ng,		
	roposal Stage		s gathering stage	
c) De	esign Stage	d) Coding Stage		
	-	= :	f a software system. He is c ts. Which of the following is	
	•		surement represents the action that action the action that the action that the contract of the	ctual quality of the
•	<u>-</u>		ity measurements and valid he actual quality of the sys	
-	•	e accuracy of her quality n	neasurements and validity r	efers to the extent
			ty measurements and valid	ity refers to the
•	•	•	nt with established norms.	,
393	. Quality attributes are	e the overall factors that a	ffect	
a) R	un-time behaviour	b) System design	c) User experience	d) All of the above
	. Testing is a			
-	- V		nding an error b) Process	_
c) Pr	ocess of testing softwa	are V	d) All of t	he above
200	Dia di la contratina a alca e	les the College to a series		
	correct function	ks the following errors b) Interface errors		
-	oth a & b	d) None of the above		
c, be		d) None of the above		
397.	A method of estimating	ng the a <mark>mount o</mark> f function	ality required for a project	is
			Estimation estimation	
398	. Scheduling begins wi	th		
a) Ri	sk identification	b) Process decor	nposition	
c) FF	P Estimation	d) COCOM0 esti	nation	
399	. Aggregation represer	nts		
a) Is	a relationship b)	Part of relationship	c) Composed of relationsh	nip d) None of above
400		•	nd output data. The cohesion	
	a) Sequential	b) Communicational	c) Procedural	d) Logical
∕ 1∩1	Estimates are made	in a project primarily on		

402. SPMP document is made at the end of

b) Cost

a) Size

a) **Project planning** b) Project monitoring c) Project control d) None of the above

c) Both a and b.

d) None of the above

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40	 While gathering for do it 	the requirements o	n OO way (using	g RUP UML), the ve	ry first thing we should
a)		ctional requirement	:S		
		ers of the System (
•		-functional require	•		
	Create Test plan	•			
•	•				
40	4. What is the solut	ion to "Yes-But Syn	drome" in requ	irements gathering	?
a) I	mprove technical sl	kills	b) Seek cu	stomer feedback e	arly
c) L	earn a tool for requ	irements	d) None of	the above	
40	5. Which of the foll	owing statements is	s true regarding	scenarios?	
	cenarios are instan	_			ons of many use cases.
•		ance of a scenario.	•	f the above	,
•			,		0
40	6. Which of the foll	owing is true about	a Build?	antui	
				or a part of the sv	stem that demonstrates
,		pabilities provided i	V		
b)		A . 7	A TOTAL OF THE STATE OF THE STA		e and provides review
,	points.	9 '			
c)	Each Build is place	d under configur <mark>ati</mark>	<mark>on con</mark> trol in ca	<mark>se there</mark> is a need t	o roll back to an earlier
	version when add	ed functionality <mark>cau</mark>	ses breakages c	<mark>or whe</mark> n there is oth	nerwise some form of
	compromised Buil	d integrity.			
d)	All of the above				
40	7. What is the Cost	of quality, Failure c	ost, prevention	cost, and appraisal	cost?
a) 1	.20, 35, 37, 50	b) 37, 95, 12	0, 40 c)	95, 37, 13, 45	d) 120, 13, 45, 40
40	8. Prevention cost i	v) Efforts spent on	reviews and test	ting	
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	
Tο	p of Form				
	-	ring is concerned w	ith		
	rocess	b) Methods	c) Tools	d) All of the	above
u, .	10003	b) Wellious	c) 10013	a, All of the	ubove
410). Static verification	of code is not likely	to reveal		
a) L	ogic errors b) S	yntax errors 💢	c) Performance	errors d) Co	oding standard violations
		ong the following h		-	
a) L	Decomposability	b) Efficiency	c) Ur	nderstand ability	d) Observability

412. Identification of inputs which cause anomalous behaviour in the outputs indicating the

existence of defects is

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a) Static Testing	b) White I	Box Testing	c) Black	Box Testing	d) Interface testir
413. In unit testing whic	h of the follow	ing is the stro	ngest testi	ng strategy?	
a) Statement coverage	b) Branch C	overage	c) Conditic	on Coverage	d) Path coverage
415. Selection of test pa	ths according t	o definition&	usage of o	lifferent variab	oles in the program is
a) Path coverage testing		b) Conditio	n Coverage	testing	
c) Data Flow Testing		d) Branch C	overage Te	esting	
416. Compared to small			ojects are		
a) More sensitive to prog	•		-		ammer ability
c) Not sensitive to progra	mmer ability		d) None of	these	
417. Which version of Co various subsystems b systems?		•	.	•	
a) Basic COCOMO c) Complete COCOMO		ntermediate C one o <mark>f the ab</mark>		itri 🛕	
418 Structural approach	is also known	as			
a) Glass box testing	b) Black b	ox testing		7 / 6	
c) Input box testing	d) Output	box testing T	op of Form		
419. Ability of a software time	e to perfor <mark>m st</mark>	ated function	under sta	ted condition f	for a stated period of
a) Efficiency b) Robust <mark>ness</mark>	c) Rel	iability	d) Corre	ectness
420. Among the following	ng types which	is the most u	ndesirable	form of coupli	ing
a) Stamp Coupling b) Common Cou	ıpling	c) Content	Coupling	d) Control Coupling
421. Which of the follow	=		=		
a) Data type b) Decision	c) Inp	ut/output	d) Proce	essing
422. All of the following					_
a) Iteration b) Selection	c) Seq	uence	d) Go to	0
423. In, the tester component to derive		ne code and u	se knowle	dge about the	structure of a
a) Black box b) White box	c) Stress tes	sting	d) None of th	e above
424. What are the comp					cture? a)

b) Client (Application Processing) – Server (Data Management)

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	anagement) –Server (App ion Processing) – Server-			
425. Iterative meth	nod contains the feature	of		
a) Water fall metho	d b) Prototype method	c) Both	d) None	
426. Which of follo	wing order is true in soft	ware engineeri	ng life cycle	
a) SRS, Design, Cod	ing. Testing	b) Design. Co	oding, Testing, SR	S
c) SRS, Design, Testi	ng, Coding		esting SRS, Desigr	
427. Which is the r	nost commonly used deb	ougging approac	ch?	
a) Brute force	b) Back tracking	c) Cause eli	mination d) Non	e of the above
•	nt characteristics of a soft	•	are a)	
Dependability, usa	bility, reliability, robustne	ess		
· ·	, dependability, efficienc	1000		
c) Supportability,	maintainability, visibility,	, rapidity	Intri	
d) None of the ab	ove	LIVEU		
429. Enough time v	will be left at the end o <mark>f t</mark>	he project to u	ncover errors tha	t were made Because
we rushed thro	ugh thep	rocess. The mo	<mark>oral is: Don't ru</mark> sh	
Through it!	is worth the <mark>effo</mark>	rt. (Clue: both t	<mark>the bl</mark> anks to be f	illed by The
same word)				
a) Coding b) Design c) Testing	g d) Non	ne of the above	
430. Who should p	erform the val <mark>idation t</mark> es	st?		
a) Software devel	oper	b) Softv	vare user	
b) c) A group of de	evelopers and users	d) None of the	above	
431 Find the activit	cy, which is not part of ve	rsion managen	nent	
a) Controlled chan	ge b) Storage managen	nent c) Coding	g standard d) No	ne of the above
432. Testing				
a) Installs guilt	b) Is punishment	c) Is to	find errors	d) None of the above
433. Which is more	e important?			
a) Product	b) Process	c) Quality	d) Nor	ne of the above
434. The sooner yo	ou begin, th	ne longer it will	take to get done.	
a) Coding	b) Testing	c) Design	d) Nor	ne of the above

435. Verification is to check

a) Whether we are building the right product

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b) Whether we ar c) Neither of the d) None of the ab		ght		
a) Requirements b) Requirements	correct sequence of proces, Analysis, Test case designs, Analysis, Design, Test case design, Analysis, Design, Analysis, Design, Analysis	gn, Design case design		
437. A software of a) Coding	uality assurance activity to b) Formal technical revie	•	_	ers one of the above
		·		
438. In what man a) Top-down	ner, coding and testing and b) Bottom-up	re done c) Cross-sectiona	al d) Ao	dhoc
Problem descript c) Feasible alterna		ject name) Data-flow diagram:	itri	a)
a) An analysis invec) Scheduled syste	-	b) A mana d) All of th	ger's formal requ	est
441. Which of the Inadequate user ic) Size of the com	e following is not a factor nvolvement b) F <mark>ailure of</mark>	in the failure of a synthem systems integration tinuation of a project	stems developme ot that should hav	ve been cancelled
a) Quality	b) Reliability	c) Operability	d) None of	f the above
a) Flow, Source, St c) Flow, Process, S 444. Which of the a) Application gen	ource/Destination, Store e following is (are) not a to erates	b) Flow, Pr d) Source, ool for Application P b) Third generat	tion language	
c) Screen generate 445 All of the foll a) Structured Engl	owing tools are used for p	•		Data Dictionaries

446. Which of the following activities does not belong to the Implementation phase of the SDLC?

c) User training

b) Program testing

a) File conversion

d) All of the above

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447. Which of the following is not true of the conversion phase of the development life Cycle?

- a) The user and systems personnel must work closely together
- b) Steps must be taken to phase out the old system
- c) Documentation should be emphasized
- d) The non-machine components of the system should be considered

448. Benchmarking is used

- a) To select computer systems
- b) To maintain files is p-to-date condition
- c) For application proto-typing
- d) For system acceptance

449. Which is the first phase of the Waterfall software process model?

- a) Design
- b) Prototype
- c) Testing
- d) Requirement

450. What is the purpose of use cases in UML?

- a) Requirements of capture
- b) Define how the software system will be used
- c) Describe what the user expects to do with the system
- d) Make clear what the stakeholders needs are
- 451. With their correct characteristics:
- 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) X<mark>1-Y2 X2-</mark>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

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- b) Is an instance of a system that differs in some way from other instances
- c) 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)

of failure) to (Exe		ase I errors + number of pn	ase I defects) (Number
457 SRS is maintain	ed in configuratio <mark>n envi</mark>	ironment as	
a) Software design b	aseline	b) Soft <mark>ware dev</mark> elopmen	t baseline
c) Software artefact'	S	d) Sof <mark>tware pr</mark> oduct base	eline
458 Following is the	SCM audit to <mark>ol</mark>		
a) Requirement metri	cs b) PERT charts	c) Source Code	d) Design Document
459 Delphi method o	of cost estimation uses		
a) Functional point ar	nalysis	b) SLOC expressed	in KDSI
c) PERT model using	effort calculations	d) Decomposition m	ethod of cost estimation
460 Validate that the	e functions meet started	I requirements or not is call	led as
a) Unit testing	b) System testing	c) Integration Testing	d) Acceptance Testing
461 What do you me	ean by incremental testi	ng?	
a) White box testing	b) Black box testing	c) Top-down testing	d) Independent testing
462 Verification show	uld be performed for		
a) Requirements	b) Design	c) Code construction	d) All of the above
463 Validation is mo software/program		he o	f the final
a) Correctness	b) Consistency	c) Completeness	d) Quality



464. Quality control p	procedures are			
a) Preventive costs	b) Appraisal costs	c) Failure costs	d) None of	the above
465. Who should be in	nvolved in determined	risk management?		
a) Customer	b) Management	c) Development t	eam d) All o	of the above
466. Which of the fo	ollowing is an attribute icy	of Quality? a) Pr	ocess b) Produ	uct c)
•	ign SDLC phase is imm ing b) Initiation			
468. Resource plann tasks carried out in	ning, audit planning, es	timation, scheduling	g are the some of	the
a) Initiation phase	b) System design pha	ase c) Definition	on phase d) Evalu	ation phase
469 System reviews a a) Quality control	nd software testing are b) Quality assurar	e examples of nce c) Quality aud		e above
470.	is done without			
a) Registration	b) Unit	executing the code c) System	d) Stat	tic
,				
	owing is not a w <mark>hite bo</mark>			
a) Statement coveragc) Decision/condition			nce Partitioning condition coverag	10
c) Decision/condition	coverage	d) Multiple	condition coverag	je ,
472. Which of the foll	owing task is not perfo	rmed by v & v mana	agement?	
a) Create the software	v & v plan	b) Conduct	the management	review of v & v
c) Support managemer	nt and technical review	d) Conduct	in-process review	S
473. A standard must	be			
a) Measurable, Attai	nable and critical	o) Smart, Measurab	le and Time-bound	d
b) Measurable, Achie	evable and Clear c	d) Approved, Availal	ole and Attainable	!
474. Which are the fo	ur primary standards c	of ISO 9000?		
	, ISO 9004, ISO 10010	•	0, ISO 9001, ISO 9	
c) ISO 9000, ISO 9002	1, ISO 9004, ISO 10011	d) ISO 9000), ISO 9001, ISO 90	004, ISO 10054
475. Cost of quality in	cludes			
a) Preventive, Correcti	ve & control	b) Preventiv	e, detective & co	ntrol
c) Preventive, appraisa	l & failure	d) None of t	the above	
476. AQL stands for?				



a) Allowable quality c) Acceptable quality		·	ed quality level d quality level	
477. Quality assura	nce is a functio	n responsible for		
				d) Removal of defects
478b)		erform structured and c) COCOMO		
		ocuses on ternal data structures		d) None of the above
480. System Test w a) Approach			esumption criteria	d) None of the above
481. As series of de	finable, repeata	able and measurable	tasks leading to us	eful result is called
a) Program	b) Process	c) Activity	d) Controller	
482. The first step ia) Determine the buch	dget	b) Detern	nine the project co a team organizatio	
483. Which of the f	V	ara <mark>cteristic</mark> of a good	decision? a)	
b) Exhibits strong ofc) Implements all ofd) Incorporates so	requirements <mark>ir</mark>	n the analysis model		
484. Which of the f	_	cteristics of a strong d gh cohesion	eign? c) Modular	d) All of the above
a) Low Coupling	ט) חוצ	gir corresion	c) Wodulai	d) All of the above
485. Which of the f Reduces technical k b) Increases degre c) Increases vulne d) Increases deper	know-how for for e of control rability of strate	egic information	rcing? a)	
486. If a linear proc	ess models all s	steps come after finisl	ning of a step then	that model
	Prototype	c) Water fall model	d) None of	the above
487. Cyclamate Co White box	mplexity metho b) Black bo	od comes under which	_	=



488. Which of the	following prov	ides the foundation for team devel	opment?
a) Motivation		b) Organizational developm	ent
c) Conflict managem	nent	d) Individual development	
489. Which of the f	ollowing is a ke	ey to effective software engineering	g?
a) Good skills b) (Good design	c) Good Management	d) None of the above
490. Estimation for	the satisfactio	on of the identified user needs is kn	own as a)
Feasibility study		b) Requirements evolution	on
c) Requirements cap	ture	d) None of the above	
491. Translating the	e algorithm int	o a programming language occurs a	at the step of
a) Debugging	b) Coding	c) Testing and Documentation	d) Algorithm Development
492. Who designs a	nd implement	database structures?	
a) Programmers b)	Project mana	gers c) Technical writers	d) Database administrators
493. The		determine <mark>s wheth</mark> er <mark>the project sh</mark>	ould go forward or not a)
Feasibility assessme	ent	b) Opportunity identifica	<mark>tion</mark>
c) System evaluation	1	d) Program specification	
· -	7	vare <mark>code is d</mark> one duri <mark>ng the</mark> b) Design	step in the SDLC
a) Maintenance and	a Evaluation	d) Development and D	Accumentation
c) Analysis			
495. Evolutionary s Are iterative in natu		ss models	a)
b) Can easily accor	mmodate prod	luct requirements changes	
c) Do not generall	y produce thro	owaway systems	
d) All of the above			
496. Which of the f	ollowing is not	a part of testing?	
a) White box testing	b) Bl	ack box testing c) Inner testing	d) Gorilla testing
497. Quality assura	nce		
a) Focuses on rem	oval of defects	s before release	
b) Is a set of plann satisfy given red	-	natic actions to provide confidence a	that a product or service will
c) Is to check the s			
d) None of the abo	- T		
498	is the ch	ain of activities that determines the	e duration of the project
a) Object points	b) LOC	c) Lines of code d) Cri	itical path



499. Debugging is a consequence of	a)	
An unsuccessful test		
b) An error in design		
c) A successful test		
d) A metric that describes the degree to	o which a software product i	meets its requirements
500. In object-orientation, polymorphism	n means	a)
There can be many objects in the design		
b) Methods can be changed in many wa	ays	
c) Many ways can be instantiated of a c	class	
d) Objects can implement the same me	thod in many ways	
501. The spiral model of software develo	opment	a)
Ends with the delivery of the software p		
b) Is more chaotic than the incrementa		N 1
c) Includes project risks evaluation duri	ing each iteration	d) All
of the above	m Manti	
		<u> </u>
502. The objective of software project p	/ / / - / / - / - / - / - / - / - / - / - / - / - /	a)
Convince the customer that a project is		
b) Enable a manager to make reasonab	le estimates of cost and sch	edule
c) Make use of historical project data		
d) Determine the probable profit margi	n prior to bidding on a proje	ect
503. Which of the following is not a sec a) Documentation b) Reviews		plans recommended by IEEE? udget
504. Which of the following tasks is not	part of software configurat	ion management?
<u> </u>	c) Statistical quality control	•
505. How many steps are in the program	n development life cycle (PD	PLC)?
a) 4 b) 5	c) 6	d) 10
506 is a measure of i	independence of a module c	or component?
a) Cohesion b) Coupling	c) Loop coupling	
507. The purpose of requirement phase	is	
a) To freeze requirements	b) To understand use	er needs
c) To define the scope of testing	d) All of the above	
508. A modular design has		
a) High cohesion, low coupling and high	n abstraction	
b) High cohesion, low coupling and low	abstraction	
c) Low cohesion, low coupling and high	abstraction	



a)	High conesion, hig	n coupling and n	ligh abstraction			
_	9. The outcome of	• •				
a)						
b)	Sufficient underst			•		
c)	Sufficient underst	anding of the pro	blem to suggest	a solution (or so	olutions)	
d)	Sufficient understa	anding of the pro	blem to write a	code specification	on.	
51	0. Corrective maint	enance is related	d to a)			
Ma	aking the system m	ore functional				
b)	Correcting the fau	ilt that could not	t be found during	g testing		
c)	Making the systen	n work in new en	vironment			
d)	All of the above					
51	1. Testing is done w	vith the objective	e of	•		
a) F	inding new errors			cting errors in th	ne software	
c) B	Soth 1 and 2	hrira	d) None	of the above	i 🛕	
51		good estimate of			Assume 10 tests Per day), er the Next week? (Assum	
a) C).0275	b) 0.5987	7 c)	0.0769	d) 0.9500	
51	3. A requirements s	specification is				
a)	A general list of th	ings that the pro	· / /			
b)	A precise and mat	thematical list of	things that the	<mark>pro</mark> posed softw	are ought to do	
-	A formal list of thi					
d)	A list of software a	and hardware res	sources needed f	or completing the	ne proposed system	
51	4. Which of the foll	owing is the inpu	ut to the feasibili	ty study?		
a)	Outline descriptio	n of the system				
b)	Set of preliminary	business require	ements			
c)	How the system is	intended to sup	port business pro	ocess d) All of the above	
51	5. Assuming that th Reliability of a soft	•		•	ation, then calculate the cases.	
a) (0.95	b) 0.9	c) 0.1) 1	
51	6. A critical task is o	one with				
	Minimum slack time		n slack time	c) No slack ti	me d) None of the above	ē
51	7 Which of the fall	owing is identifie	ad as critical for s	uccess in softwa	are development process	اد (
	lopting SDLC config	=			ntinuous risk managemer	-

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c) Both 1 and 2	d) Choice 2 only
518. How maintainability can be achieved? Through Error recovery	a)
process improvements	ct changed organizational requirements or identified
c) Both 1 and 2d) None of the above	
519. Which testing methods are used by en a) White Box testing b) Alpha and Beta test	d-users who actually test software before they use it? ing c) Black box testing d) Trial and Error testing
520. What do you mean by non-functional user requirements	requirements? a)
b) Requirements definition	
	m or the use of a specific language during
Development d) None of the above	n Mantri A
521. The project plan should be regularly re	evised during the project.
a) Yes	b) No
c) It cannot be changed, it is to be followed	d) It is made only once at the start of project
522. A program's control flow structure ind	icates
a) Correct program	
b) The sequence in which the program's in	nstructi <mark>ons are e</mark> xecuted
c) High-level language programming	
d) All of the above	
	raphical notation which are used to illustrate the acies c) Project Schedule d) Project Risk Analysis
524. Which factor is not contributing to sof	tware crisis?
a) Larger problem sizes	b) Skill shortage
c) Low productivity improvements	d) None of the above
525. Spiral mode	a)
Is an example of exploratory programme	
b) Is characterized by the assessment of n	nanagement risk items
c) Both 1 and 2	
d) None of the above	
526. Cohesion is	
a) Measure of quality	

b) Concept related to testing



c) Understandability	
d) Measure of closeness of the relationships between	n the system's components
527. Which term defines the process of project complia	ance with policies and procedures? a)
Quality control b) Quality assurance	·
c) Quality audits d) Quality control	
management	
528. Which of these terms apply to identify quality star	ndards and how to satisfy them?
a) Quality projections b) Quality management c)	Quality overview d) Quality planning
529. Acceptance test plan is	
a) Most likely to arise from the requirements specific	cation process
b) Most likely to arise from the System integration	
c) Both 1 and 2	
d) None of the above	
	- 1
530. Visibility of design means	antri
,	omplex design
c) Good quality, consistent document d) None	of above
531. Project quality management includes	
a) All activities of the performing organization that d	le <mark>termine</mark> s policies and responsibilities of a
project	
b) Performance quality control	
c) Error detection	
d) None of the above	
532. Important distinction between the spiral model ar	nd other software process model is a)
Explicit consideration of planning next phase	
b) Explicit consideration of Validation	
c) Explicit consideration of Risk Assessment and Redu	uction
d) Explicit consideration of Objective setting	
533. 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	
534. Validations is to check	
a) Whether we are building the product right product	b) Whether we are building the right
c) The methodology of software development	d) The methodology of software testing



· ·	le model would you us is of effort from a tean	• =	mercial web site that requires	3
a) Opportunistic		c) Incremental	d) Spiral	
536 Deliverables	are usually milestones	but milestones need no	nt he deliverables	
	•		d) None of the above	
u, mae	, raise	ey way be true	a) None of the above	
	of every possible test	·		
a) Static analysis	b) Dynamic testin	g c) Structural tes	ting d) Exhaustive tes	ting
538. Configuration	Management is not re	elated with		
	inges to the source cod			
b) Choice of hard	ware configuration fo	r an application		
c) Controlling dod	cumentation for an app	olication		
d) Maintaining ve	rsions of software			
E20 Which of the	following statement is	correct?		
	I A TAT TA AT	sented a set of charts sl	nowing the work	
			s showing the activities	
	and staff allocations			
•		sented as a set of chart	s showing the work breakdow	n and
activities depe	ndencies			
d) The project sch	nedule is usually rep <mark>re</mark>	sented as a set of char	ts showing the work Breakdo	wn,
activities depe	ndencies and staf <mark>f allo</mark>	ocations		
	about regression testi	7 A		
a) Regression test corrected Vers	4 /	e system <mark>underlin</mark> e is ar	n upgraded or	
	ting checks that there i	s no side effect after cl	nanges c)	
Both 1 and 2 d) None of the abo	NVA			
d) None of the abo	, ve			
541. Which of the	following is true about	integration testing?		
a) Integration tes	ting aims to find out th	e errors related to vari	ous module interfaces	
b) Integration tes system	ting is a kind of testing	, which is carried out w	hile constructing or integratir	ng the
	ting is a kind of testin	g, which is carried out	after constructing or integrat	ing
the system				
d) Both 1 & 2				
542. Which of the f	ollowing is not a queue	ed message?		
a) WM_TIMER	b) WM_QUIT	c) WM_COMMAN	d) None of these	
[42 \A/b:ab aftle f	allausina ia mata mara	raa?		
a) Bitmap	ollowing is not a resou b) Dialog box Tem		ument d) None of t	hese
,	,	-,	=,	



544. Which of the follo	owing the resource	??				
a) Bitmap	b) Html docume	nt c)	Dialog 1	templates	d	l) All of the above.
545. Which function is	used to compare	the regior	ıs?			
a) Equal to	b) EqualRgn	c)	Compa	reRgn	d	l) CmpRgn
546. Which of the follo	owing is non queer	n message	?			
a) WM_COMMAND	b) WM_QL	JIT	c) W	M_TIMER	C	l) All of the above
547. Which function i						
a) Convert	b) Invert	c) Insert		d) None of	above	
548. Which API is use	d to copy and stre	tch the bit	tmap?			
a) Bible b) Si	tretchBlt	c) Patblt		d) None of	above	
549. Which of the foll		e?	M	anti	rj A	of the above
a) Bitmap b) D	ialog box template	c) f	Itml do	cument	d) All c	of the above
550. By default polygo		/_			/	
a) Dot-dash	b) Solid	c) Transp	arent		d) Non	e of the above
551. Begin thread pres	cont in which hoad	or filo?				
a) Winuser.h	b) Window's		Process	r's	d) Non	e of the above
552. What function to	a stratch the hitma	n is usad?				
a) Stroll ()	b) Bit blt	-	Stretch	able ()	d) Bitr	nap
553. Which of the foll	lowing not Virtual	key?				
a) VK_PREV	b) VK_NEXT	c) \	/K_UP		d) Non	e
554. Which of the foll	lowing is the block	ing function	on?			
a) Get message ()		b) Post q	uit mes	ssage ()		
c) Dispatch message ()		d) Transl	ate me	ssage ()		
555. To achieve a goo	od design, different				•	
a) Weak cohesion and	l low coupling	b)	Weak	cohesion and	d high co	oupling
c) Strong cohesion and	d low coupling	d) \$	Strong	cohesion an	d high c	oupling
556. Spiral model						
•	exploratory progra	_				
•	by the assessment	of manag	gement	risk items.		
c) Both 1 and 2						



d)	None of the	above						
Mea b)	. Cohesion is asure of qua Concept rela Understand	lity ted to testi	-					
-		-	f the relationsh	ips betwee	en the syst	em's comp	onents.	
558	. The data it a) Design բ		re exchanged b b) DFDs				are represe a Structure	nted as
559			g software deve b) Spiral mod	-	-	_		
560	. Design pha	ase will usu	ally be	.				
a) Bo	ottom-up	b) T	op-down	c) Ran	dom	d) C	entre fringii	ng
	. Software e ror correctio		principles are b b) Error preve				d) None o	f the above
E62	Which of th	o following	ara SDI C pros	oss madalı	c2			
	aterfall		g are SDLC pro <mark>c</mark> -shape c)	Spiral	51	d) All of tl	he above	
a) . b) c) .	Implementir	rformed in sign the design of the sy	m refers to system testing n into executab stem <mark>from its</mark> c		ent phase t	to the oper	rational pha	ise. d)
X1:	Objective se	tting	al model sector	s: (X-Y)				
	Risk assessm							
	Developmer Planning wit		ation ect characterist	tics:				
Y1:	Risks are ass	essed and a	activities put in	place to re	educe the l	key risks		
			ne phase are ide and the next pl		e sniral is n	lanned		
			or the system is				e generic m	odels a)
	Y3, X2-Y1, X3			•	, X2-Y3, X3			
b) c)	X1-Y2, X2-Y	ı, x3-y4 x4-	-Y3	d) X1-	Y3, X2-Y2,	X3-Y1 X4-Y	4	
565	. The require	ement shou	ld specify	_				
a) W		b) What		How	d) All	of the abo	ove	
566	. V Shape M	odel						

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d) None of

a) Builds the throwaway version intend to test concept & requirements

c) Is a variant of the Waterfall that emphasizes the verification and validation?

b) Adds risk analysis, and 4gl RAD prototyping to the waterfall model

t	he above
567.	Just as the entry point to a C program is the function main(), the entry point to a Windows program is(Win Main())
568.	The three main Windows libraries are, & (Kernel.32, User32, GDI32)
569.	The size of Unicode character is bits. (32)
570.	Create Window () function sends the message. (WM_CREATE)
571.	Update Window () function sends the message. (WM_PAINT)
572.	Post Quit Message () function posts the message. (WM_QUIT)
573.	Get Message () function retrieves a message from the (Message queue)
574.	Translate Message () function is used fortranslation. (Keyboard)
575.	Window procedure function is afunction. (CALLBACK)
576.	TA program can call its own window procedure by using the function. (Send Message)
578.	Dispatch Message () function passes the MSG structure back to (Windows)
579.	The very first message that a window procedure receives is (WM_CREATE)
580.	Register Class () associates a window procedure to the (window class)
	Everything that happens to a window is relayed to the in the form of message. Window Procedure)
582.	API is used for sub classing. (Set Window Long())
583.	API is used for character translation of keystrokes. (Translate Message())
584.	Message occurs when the user clicks an item on the menu bar or presses a menu key.(WM_INITMENU)



585.	API is used to kill a modal dialog box. (End Dialog())
586.	, and are windows resources defined in a .Res file. (Any three 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. (Any two from Brush / Pen / Region / Font / Palette / Bitmap)
589.	When there is no message in the queue, Peek Message () function returns a) True b) False
590.	System keystrokes are generated for keys typed in combination with the key. (Alt)
591.	System keystroke messages are and (WM_SYSKEYDOWN, WM_SYSKEYUP)
592.	The virtual key code is stored in the parameter of the WM_KEYDOWN message. (wParam)
593.	The repeat count field is stored in the parameter of the keystroke messages. (IParam)
594.	Function is used for checking the type of information available in clipboard. (Is Clipboard Format Available ())
595.	Function is used to open the clipboard. (Open Clipboard())
596.	Function is used to clear the clipboard. (Empty Clipboard ())
597.	, and are windows resources defined in a .Res file. (Any three of these -ICON / CURSOR / STRINGTABLE / DIALOG / MENU / BITMAP)
598.	Function is used to clear the clipboard. (Empty Clipboard())
	Get Message () returns, when it retrieve WM_QUIT message form the messagqueue. 0) (window class)
	(Willias W Class)
600.	Window messages are defined in both windows.h and header files. (winuser.h)
601	The repeat count field is stored in the parameter of the keystroke messages.

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(IParam)

602. Software acts with a dual role as -

a) Application software and embedded software	
b) Embedded software and Product-line soft	
 c) Software product and Environment or ap d) Application software and Data storage 	oplication tool for software product development
603. Software Engineering encompasses -	
a) Process, Methods, and Tools	b) Process, Product, and Methods
c) Methods, Tools, and People	d) People, Process, and Product
604. Which one of the following is correct list	
a) Waterfall, Incremental, Spiral,	b) Waterfall, V-shaped, Prototyping
c) Prototyping, Spiral, Adaptive S/w developm	nent d) Waterfall, Incremental, V-shaped
605. Customer needs important functionality a) Waterfall b) Prototyping	to be implemented at earliest? c) Incremental d) RAD
606. Risk analysis and 4gl RAD prototyping is a) Spiral b) Prototyping	c) V-shaped d) RAD
607 model is a variant of the Waterfall validation	model, which also emphasizes the verification and
a) Waterfall b) Prototypi <mark>ng</mark>	c) <mark>Increme</mark> ntal d) V-shaped
608. Requirement should specify	
a) Hardware required to complete the proje	ct
b) Resource requirement	
 c) A precise and mathematical list of things provide 	that describes what proposed software should
d) Description of how to develop the system	
609. Stakeholders are asked to rank / prioritiss stage of requirement engineering.	se requirements & discuss conflicts in priority in
a) Conflict resolution b) Elaboration	c) Specification d) Negotiation
610. Use-cases are defined from point o	f view
a) An actor's b) A function's c) An ac	tor and functions d) None of the above
611. Product requirements, Organizational re	equirements, & External requirements are example of
a) Domain requirements	b) Non-functional requirements
c) Functional requirements	d) None of the above

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612. Which of the following models collectively form the design model?

- a) Data design, Architectural design, Interface Design, Component Design
- b) Data design, Architectural design, System design, Program design
- c) Architectural design, Interface Design, Functional design, Class design d) None of the above
- 613. Which of the following is FALSE statement?
- a) Abstractions allows designers to focus on solving a problem without being concerned about irrelevant lower level details
- b) Modularity is ability to understand the software by examining its components independently
- c) Control hierarchy represents the procedural aspects of the software d) None of the above
- 614. Coupling is --
- a) Qualitative indication of the degree to which a module focuses on just one thing
- b) Qualitative indication of the degree to which a module is connected to other modules & to outside world
- c) Both 1 & 2
- d) None of the above
- 615. Validation process checks -
- a) Whether we are building the right product
- c) Whether we are building the product right
- b) Whether we are building the product
- d) Whether we are testing the product
- 616. Smoke testing is an ----- testing approach, which is used when software is being developed a)

 Unit testing b) Regression testing c) Integration testing d)Acceptance testing
- 617. ----- is conducted at developer's site by end-users
- a) Beta testing
- b) Alpha testing c) White box testing d)None of the above
- 618. Unit testing is
- a) A Black box testing

- b) A White box testing
- c) An User Acceptance Testing
- d) Not a testing
- 619. ---- provides the maximum number of test cases that will be required to guarantee that every statement in program has been executed at least once.
- a) Independent Program paths
- b) Cyclamate complexity

c) Graph Matrices

- d) None of the above
- 618. Reliability is indicated by following attributes -
- a) Maturity, fault tolerance, recoverability
- b) Understand ability, learnability, accuracy
- b) Suitability, accuracy, compliance

d) All of the above

- 619. Warranty work is an example of -----
- a) Prevention cost
- b) External failure cost
- c) Internal failure cost

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d) Appraisal Cost	e) All of the above			
621. Match the following	') F(('		- (1 (° · ·	
a) Internal failure cost	i) Efforts spent in pos	•	J	
b) Appraisal Cost	ii) Efforts spent in pro	•	Ū	da alamana (0.1 alala)
c) External failure cost	•	· · · · · · · · · · · · · · · · · · ·	_	development & training
d) Prevention cost	iv) Efforts spent on re		esting	
a) a-iv b-iii c-ii d-l	•	-ii c-iii d-i		
c) a-l b-iii c-ii d-iv	d) a-ii b-i	v c-i d-iii		
622. There are levels of C	MMi			
a) 5 b) 3	c) 1	d) 6		
623. The objective of project	t planning is to provid	e a)		
Hardware & software requir		_		
b) Framework that helps to		timates of re	esources, co	st and schedule
c) Only the list of risks ident				W.
d) None of the above	riram 1	Mar	itri	
624. Pick up the correct stat	ement from foll <mark>owing</mark>	7/		
a) Project estimates should	not be update <mark>d durir</mark>	ng project de	velopment	
b) Project estimates should	be updated only at tl	ne end of the	e project	
c) Project estimates should	l be update <mark>d as the</mark> p	roject progr	esses	d) None of the above
625. The purpose of project	management is –			
a) Prediction and prevention	b)	Prediction a	nd reaction	
c) Recognition and reaction	d)	N <mark>one of t</mark> he	above	
626. Software project mana	gement is within	n SDLC		
a) A phase b) An umb	rella activity	c) A miles	tone	d) None of the above
627. Which one of the follow	ving is FALSE STATEM	ENT?		
a) Gantt charts are often us	sed for displaying the	project sche	dule	
b) Gantt chart shows both	planned and actual sc	hedule infor	mation	
c) CPM is used for finding	otal project cost			
d) Critical path is the longer	st path through the ne	etwork diagr	am	
628. In Software project ma	nagomont 1 Ps havo t	to ho manag	od in follow	ing order -
a) Project, People, Product, F	_	_		People, Product
• • • • •		•		• •
c) People, Product, Process,	Project	u) Produc	t, People, Pi	rocess, Problem
629. Scheduling begins with	Risk identificatio	n		
a) Process decomposition	b) FP Esti		c) COCOM	10 estimation
	-			

630. One of the limitations of FP analysis is

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a) Evaluation effort is sma	all	b) Facilitates ve	rification
c) Does not provide phase		d) None of the a	
	·	·	
631. Which one of the fo	ollowig nis true?		
a) Deliverables are usua	lly milestones but n	nilestones need not be	deliverables b)
All milestones are delive	rables		
c) Deliverables & Milest	tones are always del	liverables	
d) None of the above			
600 011			
632. Risk assessment is o		-) C - d' Dl	al\ All abassas (tibes assisted
a) Analysis Phase b) Design Phase	c) Coding Phase	d) All phases of the project
622 Dick score (or Dick E	synacural is a produc	rt of	
633. Risk score (or Risk Ea) Probability of occurr			occur
b) No. of resources on p			occui
c) Probability of occurre	, , ,	•	
•			
d) None of the above	rivan	Manti	7 A
631. Risk assessment Pro	ocess involves	LIVICEILLI	
a) Risk identification, Tr		sue resolution	
b) Identify problems, Re			
	/ /	urement, Planning, Trac	king, Control d) None of
the above			,
632. In Risk managemen	t, the purpose of Ris	sk Asses <mark>sment is</mark>	
a) To convert risk data	into decis <mark>ion maki</mark> n	g information	
b) To shift the impact of	f the thr <mark>eat to a t</mark> hir	d-par <mark>ty</mark>	
c) To reduce probability	and impact		
d) To define roles and re	esponsibilities		
633. Software requireme	ents should not be		
a) Functional	b) Ambiguous	c) consistent	
634. The decision logic is			
a) Data flow diagram	b) Flow chart	c) Structure cha	rt
COE Validation into the	- 1.		
635. Validation is to ched	LK		

- a) Whether we are building the product right
- b) Whether we are building the right product
- c) The methodology of software development

636. Corrective maintenance is to

- a) Improve the system in some way without changing its functionality
- b) Correct the undiscovered errors



c)	Make changes in t	he environment			
63	7. Analysis phase is				
a)	Not to actually sol	ve the problem			
b)	Not to determine	exactly what must be	e done to solve the pr	oblem	
c)	To move quickly to	program design			
63	8. Object models				
a)	Should include det	tails of the individual	objects in the system		
b)	Are part of design	?			
c)	Are natural ways o	of reflecting the real	world entities that are	e manipulated by the system	1?
63	9. The three classes	s of interface errors a	re:		
a)	Interface misuse, i	nterface misunderst	anding, timing errors		
b)			coupling, data transfe	r errors	
c)	Interface coupling	, timing errors, interf	ace parameter errors		
		hrivar	n Man	triA	
64	D. Find the activity	which is not part of v	ersion management	LIL	
a) C	Controlled change	b) Stora	ge management	c) Coding standa	rd
64	1 Which is the non	-technical factor of n	naintanansa sast?		
				c) Program validation	
a) r	rogram age	b) Programm	ing style	c) Program validation	
64	2. Software quality	assurance is a)			
	nulti-tiered testing				
	=	nd reporting mechan	ism		
•		W - A	he soft <mark>ware pr</mark> ocess.		
C 4:	2. N4t				
	rute force	ut least effective way		mination	
a) c	rute force	b) Backtracking	c) Cause elir	iiiiatioii	
64	4. Equivalence part	itioning is a)			
А١	vhite-box testing m	ethod			
b)	A black-box testing	g method			
c)	Neither white-box	nor black-box testin	g method		
64.	5. Doing what is sai	d one would do, is th	e definition for		
a) R	eliability	b) Quality	c) Software	plan	
64	6. The typical eleme	ents of the requirem	ents engineering proc	ess are	
	Problem analysis	ii) Software des	= -	nalysis of staffing needs	iv)
-	ternal behaviour sp	•	, , ,	, 0	,
	and iv	b) ii and iii	c) i, iii and iv	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?

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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.



large number of	of Commerce is an ur applications for ecided to computerize	admission to FY, SY a	and TY. B com o	classes.
Procedure require	es adhering to the norr	ns set by concerned រូ	government ag	encies, the
University and the	college administratio	n. The procedure also	o involves disb	ursing admission
Forms at a cost, c	ollecting duly complet	ed forms, preparing r	merit list and a	dmitting students
As per norms, no	tifying students, collec	ting fees, preparing	and submitting	reports to the
concerned authorities (i)Entities:	S You are require	d to identify:		
a) Processes	b) Data flows	c) Data	Stores	
715. Which SDLC Mod	del is best suited when	only part/some of th	ne requiremen	ts are known at the
a) Waterfall Model	b) Incremental	Model c) Pro	totype Model	d) Spiral Model
716. In case of Bank, v	what will be the relatio	nship between "Ope	ning of Accoun	t" use case and
"Deposit" Use case?	77	1/		
a) Uses b) E	xtends c) I	ncludes C	d) None of the	above
717is an ent	ity that is extemal to t	ne system & directly	interacts with t	the system and
deriving some ber	nefits from the inter <mark>ac</mark>	tion.		
a) Actor b) U	se case	c) Class	d) Relationship	
718. Review activity of	of any software i <mark>s unde</mark>	er which ki <mark>nd of Te</mark> sti	ng?	
a) Black Box Testing	b) Stati <mark>c Testin</mark>	g c) Dyn <mark>amic Tes</mark> ting	g d) White	Box Testing
719. Equivalence Peti Technique.	tioning is a <mark>test case</mark> g	enera <mark>tion tech</mark> nique,	forki	nd of Testing
a) Static Testing	b) White Box Testing	c) Black Box	Testing	d) Red Box Testing
720. In the Project M	anagement Triangle. V	Vhich parameter is m	ost important?)
a) Time	b) Scope c) (Cost d) All of the	above are equa	ally important
721. Quality assurance	•			
a) Process improveme		b) Testing		
c) Removal of defects	before release	d) All of the above		
722. Refers to the sup	port phase of softwar	e development.		
a) Adaption	b) Enhancement	c) Maintenance	d) Actions	5
723. Which one of the	e following is the proce	ess of factoring the d	esign module?	a)
Software re-engineer	ing b) Conf	figuration manageme	ent	
c) Software maintenar	nce d)	software Refactoring	5	

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724. Which of the fo	llowing process is not p	oart of Project Risk Mana	agement? a)
Risk Identification	b) Effor	t estimation	
c) Risk Analysis	d) F	Risk Response Developn	nent
725. Enhances perfo	ormance 8. Functionality	of the software after d	elivery.
a) Re-design	b) Re-engineering	c) Maintenance	e d) Post checking
726. Which of the fo Feasibility study c) Requirement defin	b) Requiremen	f requirement engineeri t analysis mentation	ng process? a)
727. Which of the fo	llowing meetings is not	part of Scrum?	a)
Product review mee	ting	b) Sprint review meetin	g
c) Sprint planning me	eting	d) Sprint retrospectiv	re meeting
728. In Scrum, the p	rioritized work to be do	ne is referred to as	
a) Sprint planning	b) Product bac	klog c) Sprint retros	pective d) Standup meetings
729. Software risk in	npact assessment shoul	d focus on consequence	es affecting a)
Planning resources of	oost & schedule	b) Marketability	oost & personnel
c) Business, technolo	ogy & process	d) Performance	support, oost & schedule
730. The process sta Top-down integration c) Module integration		modules is calledb) Bottom-up integration None of the above	a) on
	ner we are de <mark>veloping</mark> th not. This is known as st	he righ <mark>t produc</mark> t accordi	ng to the customer
a) Validation	b) Quality Assurance	·	d) Quality Control
732. A reliable syste	m will be one:		
a) That is unlikely to be	be completed on sdtedu fault-free	•	unlikely to cause a failure likely to be liked by the users
		s to write a passes it tes	
a) Stub	b) Proxy	c) Driver	d) None of the above
A small team to estable to Everyone who much the independent	ablish the best way to us way eventually have som t testing team	e use for the tool	/: a)
a) The vendor cont	ractor to write the initia	ai scripts	

735. Pick up IEEE the best definition of software engineering?

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- a) Set of computer programs. Procedures and possibly associated document concemed with the operation of data processing.
- b) Software engineering is Design Coding Development
- c) Software engineering implement a single independent function
- d) Software engineering is the establishment and use of sound engineering practice in order to produce

economical and reliable software that will perform n efficiently on real machine

736. Agile methods ar	e known as				
a) Predictive	b) Adaptive	c) Process (Oriented	d) Short term բ	process methods.
737. The identification in	of stakeholders a	and user clas	ses in require	ments enginee	ring is carried out
a) Elicitation	b) Analysis	c) Ver	ification	d) Specifica	ation
738. Which among the execution of tests? a) Test incident report	Luina	100 1	t summary rep	tor A	about the
739. What is not includa a) Scope b) Specif	ded in a System R fic Requirements	· i	/ ·		References
740. Project risk factor a) Spiral Model c) Prototyping Model	b) Wat <mark>erfa</mark>	ll Model enhanceme	e <mark>nt Mod</mark> el		
744 Farmal Davisons	of an individual an				d a
741. Formal Reviews of criteria are	or an individual pr	oauct usea t	o evaluate cor	rectness based	on its input
a) Inspections	b) Checkpoint re	eview	c) Testing	d) W	alkthrough
742. Which of the belo a) Identify Constraints		es is not part Algorithms	-	=	dentify Milestones
743. Which Agile princ	•				
a) Incremental Deliveryc) PMO Policy	•	ntinuous Int test Technol	_		
744. Which of c the Un Inception phase c) Consumption phase	b) Elabora	ition phase	are developm	ent? a)	

- 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.

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	TODACTO	.b 20 301tware Application	Development	. 10013 & 1CCI	Iniques	
	•	(20% of any product requ you produce others will co		effort)		
746		llowing is valid reason(s) to Allows developers to ma	_		_	ered
b)		e can be revised to reflect	_			
•	•	dentify dwanges to incorp	_	t increment		
	All of the above	,				
		llowing is not generally co	· ·	-	•	
a) Cı	ustomers	b) End-users	c) Sales	people	d) Project managers	
748	. Does an organiz	zation develop one lifecyc	le model?			
a) Fo	or all the projects	b) For each proje	ct c)	For each do n	nain	
750	. Find the odd or	ne out of the following:			04.0	
a) St	ep wise refineme	ent b) Structura	al design	c) Informa	ation hiding	
751	. Corrective mair					
a)	Improve the syst	em in some way without	changing its fu	nctionality		
b)	Correct the undi	scovered errors				
c)	Make changes in	the environment				
	. Analyse is phas					
-	Not to actually so			/ A. /		
•		e exactly wha <mark>t must be</mark> do to program <mark>design</mark>	ne to solve the	e problem		
		Bas	sic			
0.1	From the followi	ing which quality deals wi		the quality o	f the software product	?
	uality assurance	b. Quality control	c. Quality effic	-	d. None of the above	
Q.2 a. Y e		ed design is comprised of b. No	many smaller s	ub-systems is	s known as, Functions.	
For 1) E 2) F	scheduling a pro reak down the p ind out various to	wings are true or false. ject, it is necessary to: roject tasks into smaller, r asks and correlate them. me required for each task	_		nits.	
a. Tı		b. False				

Q. 4 Software project manager is engaged with software management activities. He is responsible for _____ .

a. Project planning.

b. Monitoring the progress



None of the above	noiders d. All mentioned above e.
Q.5 Software is not considered libraries and documentation	to be collection of executable programming code, associated associated
a. True b. False	
Q.6 Which quality deals with th	e maintaining the quality of the software product?
a. Quality assurance b.	Quality control c. Quality Efficiency d. None of the above
Statement 1: Umbrella active throughout the process.	according to given below statement. Vities are independent of any one framework activity and occur ity assurance, software configuration management are umbrella
•	ty assurance, software configuration management are not umbrella
activity.	in arms b A.A. correction in A. s
a. Only statement 1 is correct.c. Only statement 3 is correct.	b. Statement 1 and statement 2 are correct. d. Statement 1 and statement 3 are correct.
	eld between two persons across the table is
a. Written b. Non-structu	d. One-to-one
a. To describe what the customb. To establish a basis for the cr	
Q.10 When elements of module another element and so on,	e are grouped because the output of one element serves as input to it is called
a. Functional Cohesion	b. Communicational cohesion
c. Sequential cohesion	d. Procedural cohesion
•	word processor is a module of software.
a. True b.	False
capability of getting	iped together if they have similar functionality, process activities and integrated with other tools.
a. True b.	False
simulation tools?	ramming environments like IDE, in-built modules library and
a. Web development tools	b. Prototyping tools
c. Programming tools	d. Design tools

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Q.14 Which depicts flow of control in program modules? a. Flowchart b. DFD c. Both A & B d. None of the above					
Q.15 Abbreviate the te					
a. Hierarchical Input Pro		b. High-level Input Pro	cess Output		
c. Huge Input Process C)utput	d. None of the above			
Q.16 The total number	r of distinct operator an	d operand occurrences	measures are used in		
a. Lawrence theory	b. Halstead's the	e ory c. Kyburg, I	H. E. d. Jech, T.		
cause the	ocuses on the identifica · b. Internal problems c.		potential hazards that can the above		
Q.18 Which model give	es the overall reliability	of the system that is pr	rojected and certified?		
a. Sampling model	b. Compon	ent model	A		
c. Certification model	d. Both A & B	Manti	ri 🛦		
Q.19 Which class gives a content or function change that corrects an error or enhances local content or functionality in change management?					
a. Class 1	b. Class 2	c. Class 3	d. Class 4		
Q.20 Which aspect is in	mportant when the soft	ware is m <mark>oved fro</mark> m on	ne platform to another?		
a. Maintenance	b. Operational	c. Trans <mark>itional</mark>	d. All of the above		
Q.21 A software project. software project. a. True	ct manager i <mark>s a perso</mark> n v b. False	who u <mark>ndertak</mark> es the res	ponsibility of carrying out the		
Q.22 From the following a. Counting the lines of c. Both A and B	ng methods which size of delivered code	of the software product b. Counting delivered f d. None of the above			
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. PERT chart b. Gantt chart c. Both A & B d. None of the above					
-		-			

Agile Software Development

- 1. Select the option that suits the Manifesto for Agile Software Development
- a) Individuals and interactions
- b) Working software
- c) Customer collaboration
- d) Responding to change
- e) All of the mentioned

2. Agile Software Development is based on



a) Incremental Development Waterfall Model	b) Iterative Developre) Both a and b	ment c) Lin	ear Development d)			
3. Which on of the following is not a	nn agile method?					
a) XP b) 4GT	_	c) AUP				
4. Agility is defined as the ability o	f a project team to respo	•	nge.			
	False					
5. How is plan driven developmen	_	•				
a) Outputs are decided through a			development process.			
b) Specification, design, implemen	-	erleaved				
c) Iteration occurs within activitie	S					
6. How many phases are there in Sc	rum?					
a) Two b) Three c) Foo	ır d) Scrum is an agile	e method which me	eans it does not have phases.			
7. Agile methods seem to work	best when team member	ers have a relatively	high skill			
level. a) True	b) Fals	se	W.			
8. Which of the following does	not apply to agility to a s	oftware process?				
a) Uses incremental product delivery strategy b) Only essential work products are produced						
c) Eliminate the use of project plan	ning and testing					
9. Which three framework activities	are present in Adaptive	Software Developn	nent (ASD)?			
a) Analysis, design, coding b) requirements gathering, adaptive cycle planning, iterative development c) speculation, collaboration, learning						
,,,,						
10. In agile development it is more i			customers' needs today than			
worry about features that migh						
a) True b) Fa	lse					
11. Agile is						
a) Sequential b) Iterativ	re c) Increm	iental	d) Both b & c			
12. What is/are advantage/s of A	gile testing?					
a) Saves time						
b) requires less planning and crea	ates less documentatio	n				
c) Regular feedback from end users						
d) Solves issue in advance by daily meeting						
e) All the above	, 333 8					
13. Who will test the system in a	gile development?					
	-	Business Analyst	d) All the above			
44.14						
14. When acceptance testing is p	_	-				
a) On request of customer	b) After system	is ready				
c) At the end of each iteration	d) Daily					

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15 .In agile development, True b) False	lengthy documentation	is created. a)			
16. Which skill are requirea) Domain knowledgeb) Keen to learn and adopc) Effective communicatorabove	t new technology	elationship with develop	ment teeam d) All the		
17. Who is responsible for	sprint meeting?				
a) Product owner	b) Scrum team	c) Scrum master	d) All the above		
18. Who prioritizes produc	ct backlog?				
a) Product owner	b) Scrum team	c) Scrum master	d) All the above		
19. Arrange following scrum practices according to the order in which they are carried out. 1. Sprint planning 2. Daily scrum meet 3. Sprint retrospective meet 4. Sprint review meet 5. Sprint a) 1,5,2,3,4 b) 1,5,2,4,3 c) 1,2,5,4,3 d) 1,3,2,4,5 UML – 1 1. Which of the following UML diagrams has a static view? a) Collaboration b) Use case c) State chart d) Activity 2. What type of core-relationship is represented by the symbol in the figure below?					
a) Aggregation	b) Dependency	c) Generalization	d) Association		
u, 1.00, 20.000	2, 22,000,000,000,000	o, conc. aa	3,1 3333 333 3		
3. Which core element of UI	ML is being shown in the f	igure?			

c) Class

a) Node

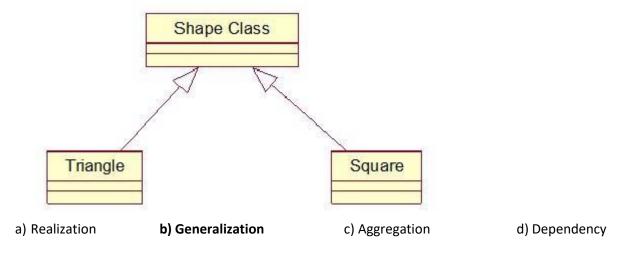
b) Interface

d) Component

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4. What type of relationship is represented by Shape class and Square?



- 5. Which diagram in UML shows a complete or partial view of the structure of a modelled system at a specific time?
- a) Sequence Diagram
- b) Collaboration Diagram
- c) Class Diagram
- d) Object

Diagram

- 6. Interaction Diagram is a combined term for
- a) Sequence Diagram + Collaboration Diagram
- b) Activity Diagram + State Chart Diagram
- c) Deployment Diagram + Collaboration Diagram
- d) None of the mentioned
- 7. Structure diagrams emphasize the things that must be present in the system being modelled.
 - a) True

- b) False
- 8. Which of the following diagram is time oriented?
- a) Collaboration
- b) Sequence

c) Activity

UML - 2

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

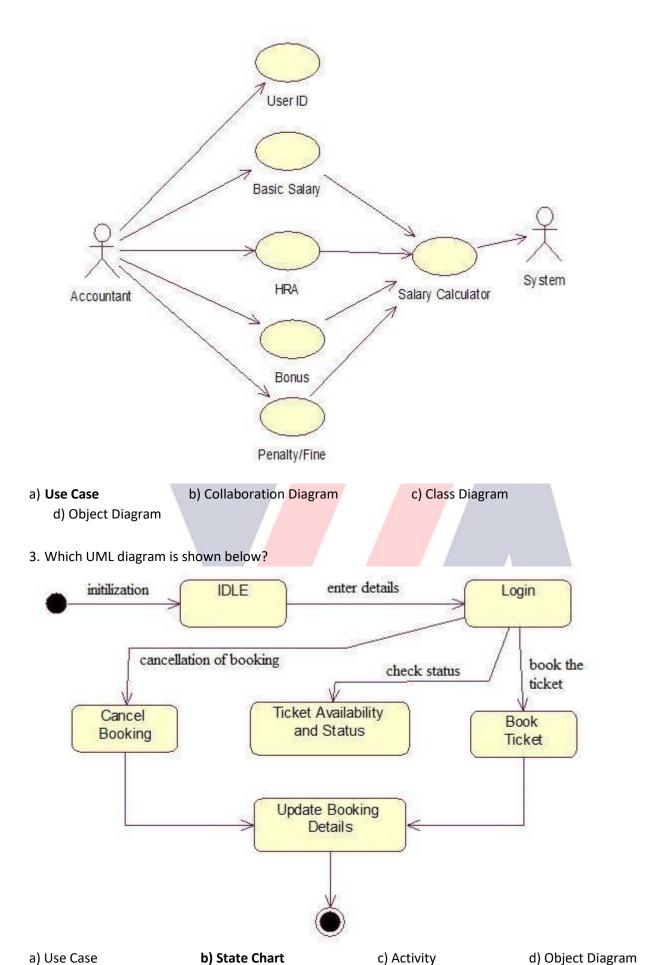
d)

nine

2. Which UML diagram is shown below?

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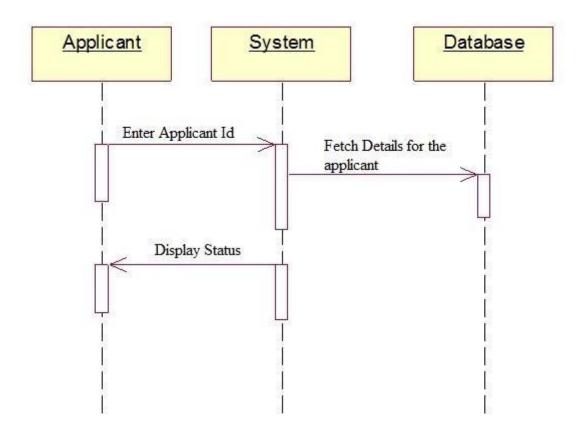


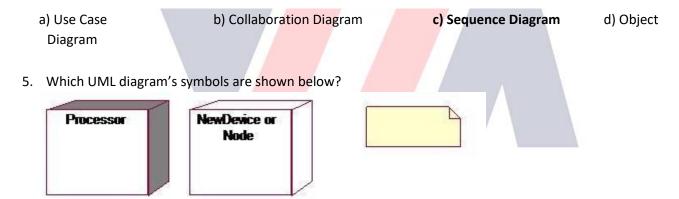


4. Which UML diagram is shown below?

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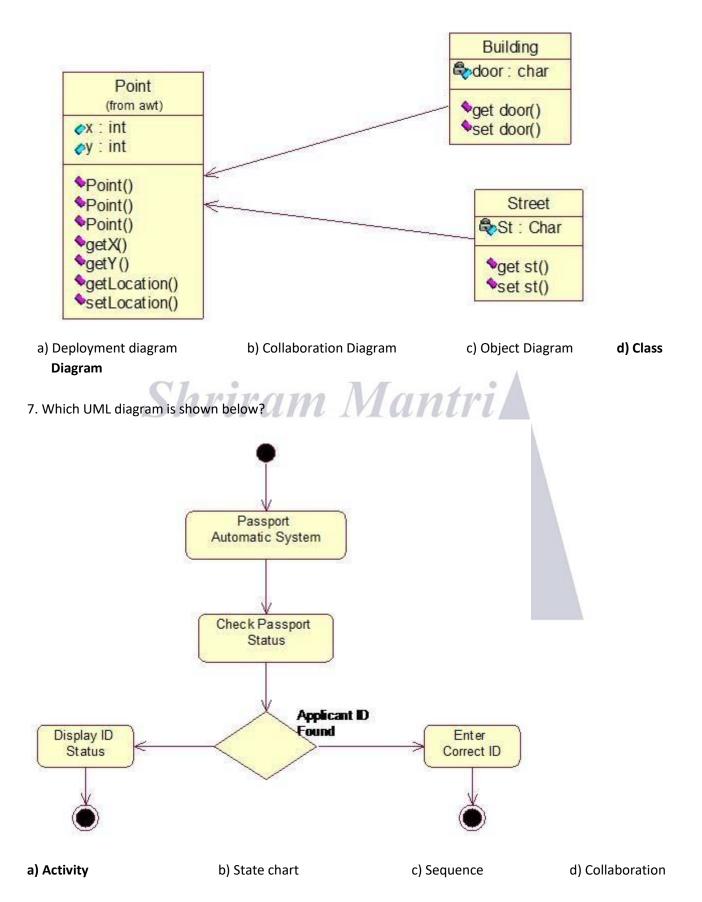


- a) Deployment diagram
 Diagram
- b) Collaboration Diagram
- c) Component Diagram
- d) Object

6. Which UML diagram is shown below?

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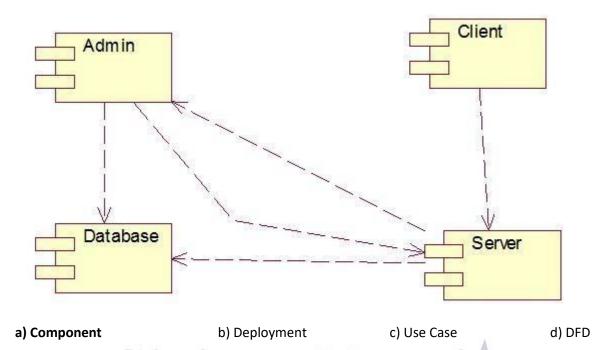




8. Which UML diagram is shown below?

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Software Testing Techniques – 1

- 1. Which of the following term describes testing?
 - a) Finding broken code **b) Evaluating de** 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

- b) Structural testing
- c) Error guessing technique

- 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?

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a) Unit Testing mentioned	b) System Testing	c) Integration Testing	d) All of the
9. Boundary value analys	is belong to?		
a) White Box Testing	b) Black E	Box Testing	
10. Alpha testing is done	at		
a) Developer's end	b) User's e	end	
So	oftware Testing	Techniques	- 2
1. The testing in which co	•		_
a) Black box testing testing	b) White box testing	c) Red box testing	d) Green box
2. Testing done without p	olanning and Documentation is	called	
a) Unit testing b)	Regression testing	c) Adhoc testing	d) None of the mentioned
3. Acceptance testing is a a) Grey box testing	also known as b) White box testing	c) Alpha Testing	d) Beta testing
4. Which of the following	s is non-functional testing?		
a) Black box testing	b) Performance testing	c) Unit testing	d) None of the mentioned
E. Data tasting is done at			
5. Beta testing is done ata) User's end	b) Develo <mark>per's end</mark>		
a) Oser s enu	b) Developer's end		
6. SPICE stands for			
	provement and Compatibility D	etermination	
	provement and Control Determ		
c) Software Process Im	provement and Capability Det	ermination	
d) None of the mention	ed		
7. Unit testing is done by	,		
a) Users	b) Developers	c) Custom	ers
8. Behavioural testing is			
a) White box testing	b) Black box testing	c) Grey bo	ox testing
9. Which of the following	s is black box testing		
a) Basic path testing	b) Boundary value analy	sis	
c) Code path analysis	d) None of the mention	ed	
10. Which of the followin	ng is not used in measuring the	size of the software	
a) KLOC	b) Function Points	c) Size of module	
	Life Cycle	Models	

1. Build & Fix Model is suitable for programming exercises of ______ LOC (Line of Code).

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c) 400₋1000

P) 300-400



a) 100-200	b) 200- 4 00	c) 4 00-1000	d) above	1000
 RAD stands for Relative Application Rapid Application D Rapid Application D)evelopment			
3. Which one of the fo a) Build & Fix Model	llowing models is not su b) Prototyping		ng any change? O Model	d) Waterfall Model
	the types of prototype o	* * -		d) Damain
a) Horizontal Prototy Prototype	pe b) Vertical Pr	ototype c) Dia	igonal Prototype	d) Domain
	llowing is not a phase of			
a) Quick Design	b) Coding	c) Prototype Re	efinement	d) Engineer Product
a) No room for structuctc) Maintenance is prac7. RAD Model hasa) 2 phases8. What is the major da) Highly specialized &	b) 3 phase rawback of using RAD M skilled developers/design	b) Code soon d) It scales up c) 5 phases	becomes unfix-alp well to large pro	ble & unchangeable bjects 6 phases
b) Increases re-usabilitc) Encourages custome			d) Both	a & c.
9. SDLC stands for a) Software Developn c) Software Design Life			n Development Life n Design Life Cycle	•
10. Which model can b a) Waterfall Model	oe selected if user is invo b) Prototyping		f SDLC? A D Model	d) both b & c

Function Oriented Software Design

- ${\bf 1.}\ Choose\ the\ option\ that\ does\ not\ define\ Function\ Oriented\ Software\ Design.$
- a) It consists of module definitions
- b) Modules represent data abstraction
- c) Modules support functional abstraction
- 2. Which of the following is a complementary approach to function-oriented approach?
- a) Object oriented analysis
- b) Object oriented design
- c) Structured approach

a) 100-200

d) Both a and b



3. Function-oriented design tech	niques starts with funct	ional requirements specified in	
a) SDD	o) SRS	c) None of the mentioned	
4. Structured Analysis is based oa) Top-down decomposition appc) Graphical representation of re	roach	b) Divide and conquer princip d) All of the mentioned	le
5. Which of the following is/are aa) A function such as "search-bb) Functions represent some acc) Function symbol is known asd) All of the mentioned	ook" is represented usin	ng a circle.	
6. Which of the following is not a a) Support structured analysis arc) Checks whether DFDs are bala	nd design (SA/SD)	b) Maintains the data dictionary d) It complies with the available s	system.
7. What DFD notation is represe a) Transform b) Da		unction d) None of the men	itioned.
8. Structural decomposition is coal) True b) Fa		alls.	
	cuses on th <mark>e entities</mark> in t False	he sy <mark>stem rat</mark> her than the data processing a	activities.
10. In DFDs, user interactions wi a) Circle b) Arr	c) Re	ctangle d) Triangle	
	Project Man	lagement	
 1. Which of the following is not p a) Keeping overall costs within b) Delivering the software to th c) Maintaining a happy and we d) Avoiding costumer complain 	budget. ne customer at the agree II-functioning developm	ed time.	
2. Project managers have to asso a) True	ess the risks that may af b) False	ect a project.	
3. Which of the following is not of a) Specification delays	considered as a risk in p b) Product competiti		turnover
4. The process each manager fola) Project Managementb) c) Project Management Life	- 1	project is known as b) Manager life cycle d) All of the mentioned	



a) very low	b) low	c) moderate	d) high	e) very high
	oftware costs	neters that you should	d use when cor	mputing the costs of a
b) effort costs (the	costs of paying software	engineers and manag	gers)	
7. Quality planning	is the process of develor	oing a quality plan for		
a) team	b) project	c) customers		d) project manager
8. Which of the follo a) Internship mana management	owing is incorrect activity gement b) Change i	·	n managemen :) Version mana	•
9. Identify the sub-pa a) Process introduct	process of process impro tion b) Process and	700	ocessification	d) Process distributio
10. An independent quality attribute a) True	Y A	between the attribut	e that can be n	neasured and the external
Which of the follog Project size uncertainty	Pro owing is an important fac b) Planning process	ctor that can affect the c) Project com	<mark>ne a</mark> ccuracy and	d efficacy of estimates? d) Degree of structural
	he data and con <mark>trol to b</mark> e	•		
a) Planning processc) External hardwar	b) Software e d) Project co	•		
gathering that o	ependent investigators has an be applied to establis	sh the scope of a proj	ect called	·
a) JAD	b) CLASS	c) FAST	d) No	one of the mentioned
4. CLSS stands for				
a) Conveyor line so	rting system	b) Conveyor lin	e sorting softw	vare
c) Conveyor line sor	ting speed	d) Conveyor line	sorting specifi	cation
5. The project planr is known as	ner examines the statem	ent of scope and extr	acts all import	ant software functions which
a) Association	b) Decomposition	c) Planning p	orocess	d) All of the mentioned
6. The environment	that supports the softw	are project is called		
a) CLSS		AST d) CB	SE	
•	owing is not an option to	achieve reliable cost	and effort est	imate?

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- a) Base estimates on similar projects that have already been completed
- b) Use one or more empirical models for software cost and effort estimation
- c) Use relatively simple decomposition techniques to generate project cost and effort estimates.

٠,	ose relatively sim	pie decomposition (ecimiques to Bei	rerate project cost and eno.	e communes.
d)	The ability to tran	Islate the size estim	ate into human	effort, calendar time, and d	ollars.
8. '	What can be used t	o complement deco	mposition techn	iques and offer a potentially	valuable estimation
	approach in their	•		,	
a)	Automated estima	_			
•	Empirical estimati				
-	Decomposition te				
-	•	estimation tools an	d Empirical estir	nation models	
9. '	Which of the follow	ing is not achieved	by an automated	l estimation tools?	
a) P	redicting staffing le	vels	b) Predicting	software cost	
c) P	redicting software	schedules	d) Predicting	client's demand	
10	. Software project e	stimation can neve	r be an exact scie	ence, but a combination of g	ood historical data
an	d systematic	te	chniques can im	prove estimation accuracy.	a) True
b)	False	Shrire	ım N	nd Product –	
	S	oftware P	rocess a	nd Product -	1
1 '	Which one of the fo	ollowing is not a soft	ware process au	ality2	
	Productivity	b) Portabi	/ / / -	c) Timeliness	d) Visibility
-	**************************************	V. Taranta and A. Tar	wo kinds of softv		a) Visibility
	 CAD, CAM		, Embedded	c) Generic, Cust	romised
u,	crib, criivi	S) Timiware	, Embedded	c, deficite, east	Johnson
2	Software costs mor	e to maintain th <mark>an i</mark>	t does to develo		
	True	b) Fals <mark>e</mark>	t does to develo		
aj	iiue	b) Taise			
4	Which one of the fo	ollowing is not an ar	onlication of emb	edded software product?	
	key pad control of a	= -	prication of cris	caaca soremare product.	
-	pattern recognition				
	_	ashboard display in	a car		
۷,	aigital failetion of e		u cui		
5.	Purpose of process	is to deliver softwa	re ·		
a)	in time	b) with acceptable	e quality	c) that is cost efficient	d) both a & b
6 .	The work associate	d with software end	ineering can he	categorized into three gener	ic nhases
υ.		_	_	-	phase which focuses
	on what, the		focuses on how		nich focuses on

a) 1, 2, 3 b) 2, 1, 3 c) 3, 2, 1 d) 3, 1, 2
7. Which of the following activities of a Generic Process framework provides a feedback report?
a) Communication b) Planning c) Modelling & Construction d) Deployment

8. Process adopted for one project is same as the process adopted from another project.

a) True b) False

change. i. support ii. development iii. definition



activities and help team				•
a) Re-usability management	b) Risk m	nanagement		
c) Measurement	d) User I	Reviews	e) Software	quality assurance
10. Four types of change are that falls into such cate	_	the support phase	. Which one of	the following is not one
a) Translation	b) Correction	c) A	Adaptation	d) Prevention
	_			
Soft	ware Proc	ess and P	roduct	- 2
 If a software production a) True 	n gets behind schedule False	e, one can add mo	re programmer	s and catch up.
2. Choose an internal soft	ware quality from give	en below:		
a) scalability reliability	b) usability	c) reusability		d)
3. RUP stands for	created by a divi	Mar	ntri	
a) Rational Unified Program			nal Unified Pro	coss Infosys
c) Rational Unified Process,			onal Unified Pro	•
c) National Offined Process,	WICIOSOIT	uj Katic	mai Omneu Pit	ocess, ibivi
4. The RUP is normally desc perspective do? a) It sh			- A	ce. What does static
b) It suggests good practic			7 /	
c) It shows the phases of t				
·				
5. The only deliverable wo	W	essful <mark>project is</mark> the	working progr	ram. a)
True	b) False			
c while the full bur				
6. Which phase of the RUF				۵۱
a) Transition Inception	b) Elaboration	c) Constru	ction	d)
псериоп				
7. Which one of the following	ng is not a fundament	al activity for softy	vare processes	in software engineering?
a) Software Verification	b) Software Va	· ·		gn and implementation
d) Software evolution	e) Software spe			,
8. A general statement of o efforts.	bjectives is the major	cause of failed sof	tware	
a) True	b) False			
9. The longer a fault exists i	n software			
a) the more tedious its rem	oval becomes	b) the r	nore costly it is	to detect and correct
c) the less likely it is to be n	roperly corrected	llΔ (h	of the mention	ned

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10. Component-base	ed Software Engineering all	ows faster delivery.	
a) True	b) False		
	owing steps to form a basic,	-	ocess
	Design iii. Install iv. Specific	cation v.	
Manufacture vi.			
a) 2, 4, 5, 1, 6, 3	b) 4, 2, 5, 1, 3, 6	c) 2, 4, 5, 1, 3	3, 6 d) 4, 2, 5, 1, 6, 3
	Requirem	ent Enginee	ering
1. What are the type	es of requirements?		
a) Availability	b) Reliability c) Us	ability d) Flexibil	lity e) All of the mentioned
2. Select the develop	per specific requirement?		
a) Portability	b) Maintainabil	ity c) Av	ailability d) Both a and b
3. Which one of the	following is not a step of re	quirement engineering?)
a) Elicitation	b) Design	c) Analysis	d) Documentation
4. FAST stands for	Chrivan	Man	troi A
a) Functional Applica	ation Specification Techniqu	ue b) Fast A	pplication Specification Technique
c) Facilitated Applica	ation Specification Techniq	ue d) None	e of the mentioned
5. QFD stands for			
a) quality function de	sign b)	quality function develop	oment
c) quality function de	eployment d) r	none of the mentioned	
6. A Use-case actor	r is always a person <mark>having a</mark>	a role that <mark>differen</mark> t peo	ple may play.
a) True	b) Fal <mark>se</mark>		
•	requirements are the parts		
a) SDD	b) SRS	c) DDD	
8. A stakeholder is a	nyone who will purchase th	ne completed software s	ystem under development.
a) True	b) False		
9. Conflicting require version is the rig	·	uirement Engineering, v	vith each client proposing his or her
a) True	b) False		
10. Which is one of t a) Entry level person software	the most important stakeho nel b) Middle level s	_	

Software Metrics

1. Which of the following is the task of project indicators:



a) help in asse the	essment of status of ong	going project.	b) Track potential risk	c) both a and b	d) none o
mentioned					
2 Which of th	ne following does not af	fect the softw	vare quality and organizat	ional performance	.?
a) Market	b) Product		c) Technology	d) People	•
2 The intent	of project metrics is:				
	n of development sched	dulo	h) For stratogic nu	rnococ	
•	·		b) For strategic pu	rposes	
c) Assessing pr	oject quality on ongoin	g basis	d) Both a and c		
	ne following is not a dire	ect measure o	f SE process?		
a) Efficiency	b) Cost		c) Effort Applied	d) All of the m	entioned
5. Which of th	ne following is an indired	ct measure of	product?		
a) Quality	b) Comple	xity	c) Reliability	d) All of the M	lentioned
6 In size ories	nted metrics, metrics ar	a davelaned k	assed on the	- A	
a) Number of	I O TOTAL	nber of user i	1 1 1 1 1 1 1 1 1 1 1 1 1	lines of code	d) Amount of
memory ı			171 001001		,
6.1					
	V =		main required for determ		
a) Number of Number of		mber o <mark>f user I</mark>	inquiries c) Number o	f external Interface	es d)
Number	of errors				
8. Usability ca	n be measured in terms	s of:			
a) Intellectua	I skill to learn the systen	n			
b) Time requi	red to become moderat	e <mark>ly effici</mark> ent in	n sys <mark>tem usag</mark> e		
c) Net increas	se in productivity				
d) All of the n	nentioned				
9. A graphical	technique for finding if	changes and	variation in metrics data	are meaningful is k	nown as
.	Removal Efficiency)	•	nction points analysis	J	
c) Control Cha	• •		of the mentioned		
-	emoval efficiency (DRE)				
	ound before software d	•	b) D – defects found afte	r delivery to user	
c) Both E and I	D	· ·	d) Varies with project	•	
	Softy	vare M	aintenance -	- 1	
1. Software N	1aintenance includes			_	
a) Error correc		b) Enh	ancements of capabilities	S	
•	obsolete capabilities		e mentioned		
2 Maintenan	ce is classified into how	many categor	ries?		
a) Two	b) Three	c) Fou		!	
	,	- ,	,		

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3. The modification of to category of software		anges in the ever changing	environment	, falls under which
a) Corrective	b) Adaptive	c) Perfective	d) Prev	entive
4. How many phases ar	e there in Taute Mainten	ance Model?		
a) Six Nine	b) Seven	c) Eight	d)	
• •		d in Software Maintenanc		
a) Regression Testing	b) System Testing	c) Integration ⁻	Гesting	d) Unit Testing
6. Regression testing is a) True	a very expensive activity. b) False			
7. Selective retest tech retest techniques a	•	nomical than the "retest-al	l" technique.	How many selective
a) Two Five	b) Three	c) Four	d)	
8. Which selective rete	st technique selects every an its original version? b) Minimization	test case that causes a m	odified progra	am to produce a
	easures the ability of <mark>a reg</mark>	<mark>gress</mark> ion test s <mark>election</mark> tech	nique to han	dle realistic
applications. a) Efficiency	b) Precision	c) Generality	d) Inclusiv	reness
10. Which regression to	est selection te <mark>chnique e</mark> x	poses f <mark>aults caus</mark> ed by mo	difications?	
a) Efficiency	b) Prec <mark>ision</mark>	c) Generality	d)	Inclusiveness
	Software N	Maintenance	- 2	
1. The process of gener	ating analysis and design	documents is known as		
a) Software engineering Reengineering		neering c) Reverse	engineering	d)
What is a software pRequired or Critical F		ix		
c) Daily or routine Fix	d) None of the m			
3. Which one of the fol	lowing is not a maintenan	nce model?		
a) Waterfall model	=	euse-oriented model		
c) Iterative enhancemer	nt model d) Q	uick fix model		
4. What does ACT stand	ds for in In Boehm model	for software maintenance	?	
a) Actual change track	b) Annual	change track		
c) Annual change traffic	d) Actual c	hange traffic		

5. Choose the suitable options with respect to regression testing.

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a) It helps in development of softwork c) both a and b	d) none of the me		are	
6. What are legacy systems? a) new systems b) old syst	ems c) under-develo _l	oed systems	d) none of the me	ntioned
7. Which of the following manuals a) Beginner's Guide b)	is not a user documentation Installation guide	n? c) Reference Gi	uide d)	SRS
8. Which of the following manuals a) SRS -Software Requirement Spe System Overview		ware Design Docı	ument c)	
9. The process of transforming a manal Forward engineering	nodel into source code is kno b) Reverse engineering	own as c) Re-engineeri	ng d) Recons	tructing
10. How many stages are there in a) Two b) Three Software Configuration 1. Which of the following categories a) computer programs c) data d) All of the mentioned	c) Four Iration Manag	ement – ftware process?) Five 1	e?
2. Which is a software configuration impeding justifiable change?a) Baselinesb) Source of the configuration impeding justifiable change?			trol change without d) None of the me	-
 3. Software Configuration Manage a) A single software configuration b) A separate configuration manage c) Software Configuration Manage 	on management team for the agement team for each project	e whole organiza	ation	ntioned
4. What combines procedures and created during the software procedures a) Change control b) Version 5. What complements the formal to are generally not considered do a) Software configuration audit c) Baseline	rocess? ion control technical review by assessing	c) SCIs d g a configuration guration manager) None of the menti object for characte	ioned
· ·			ata, and libraries, ar	nd then

7. Which of the following option is not tracked by configuration management tools?

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a) Tracking of change proposalsc) Tracking the releases of system versions to customers			_	versions of s of the mention	ystem components ned
8. Which of the following i a) Configuration item iden c) Release management	tification b) R	nfiguration M isk managen Branch man	nent	ity?	
9. The definition and use of a) ISO 9000	of configuration mana b) CMM	agement sta c) CMM		l for quality o	
10. What involves preparing been released for custa) System building	_		and keeping track	-	n versions that have
management	b) Neleuse mana	.gement	e, change mane	gement	a) version
	re Configu				
1. Which of the following p maintained?a) Code line	b) Configuration	20 1/	c) Version	; A	ecorded and Workspace
2. Which of the following	process is concerned	with analysi	ng the costs and I	<mark>oene</mark> fits of pr	oposed changes?
a) Change management	b) Ver <mark>si</mark> d	on managem	ent		
c) System building	d) R <mark>elea</mark>	<mark>se ma</mark> nagem	nent		
3. Which of the following i	s not a Versio <mark>n mana</mark>	agement fea	ture?		
a) Version and release iden	tification b)	Build script	generation		
c) Project support	d)	Change histo	<mark>ory rec</mark> ording		
4. Which method recomm testing to discover sof	tware problems?	-		arried out wit	th automated
a) Agile method		el compilation			
c) Large systems method	d) All of	the mention	ned		
E Which of the following i	s not a build system	foaturo2			
5. Which of the following i a) Minimal recompilation	•	mentation ge	aneration		
c) Storage management	d) Repoi	_	eneration		
c) Storage management	u) Kepoi	itilig			
6. Which of the following i	s a collection of com	ponent versi	ions that make up	a system?	
a) Version	b) Code line	-	Baseline	-	ne of the above
		•		•	
7. Which of the following i	s a configuration iter	m?			
a) Design specificationAll of the mentioned	b) Source code	c) Te	est specification	d) Log inf	formation e)
8. Which of the following i			tem		

b) packaging and associated publicity that have been designed for that release



c) an installation pro mentioned	gram that is used t	o help install the system on targ	et hardware d) all of the
9. A sequence of basel	ines representing o	different versions of a system is I	known as
a) System building	b) Mainline	c) Software Configuration Ite	
10. Which of the follow version in an existi	_	efined by the statement "The cre	eation of a new code line from a
a) Branching	b) Merging	c) Code line	d) Mainline
	Ris	sk Management	
1. Risk management is			
a) Client	b) Investor	c) Production tear	m d) Project manager
a) Product risk	b) Project risk	um Mant	perform as expected? d) Programming risk vill be a change of organizational
management with	different priorities	5."?	
a) Staff turnover	b) Technology char	nge c) Management chan	ge d) Product competition
system is built is su	uperseded by new	technology."?	derlying technology on which the
a) Technology change		ict competition	
c) Requirements chang	ge d) None o	of the mentioned	
C 14/hat acces the wiel	, and was malays far	u wiele weitligestie werend werriege the see	when you begin many about the
risk?	V /		when you learn more about the
a) Risk monitoring	b) Risk plann	ing c) Risk analysi	s d) Risk identification
6. Which of the follow developed?	ing risks are derive	d from the organizational enviro	nment where the software is being
a) People risks	b) Technology r	isks c) Estimation risks	d) Organizational risks
7. Which of the follow develop the syster	•	d from the software or hardware	e technologies that are used to
a) Managerial risks	b) Technology	risks c) Estimation ri	sks d) Organizational risks
	ing term is best def tion hiding in the d	fined by the statement: "Derive to esign."?	traceability information to
a) Underestimated dev None of the above	•	b) Organizational restructuring	c) Requirements changes d)
9. Which of the follow	ing strategies mear	ns that the impact of the risk will	be reduced?
a) Avoidance strategie		zation strategies	
c) Contingency plans	d) All of th	e above	

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Risk managemen management tas	_	ed as one of the	most importa	ant project b) False	
11. Every risk has 1		True or false.			
a) True	b) False				
12. Risk manageme	ent is responsibil	lity of the			
a) Customer b)	Investor	c) Developer	d) Project	team	e) Production team
13. Risk is expresse a) True	d in terms of pro b) False	obability and ir	npact.		
14RE represents v	what				
a) Risk expense	b) Related e	expense	c) Risk exp	posure	d) Risk evaluation
website? a) Shortage of tester b) Many changes in c) Delay in fixing de d) Failure to transfe e) All of the above 16. Which of the fo a) Risk avoidance tector C) Risk contingency 17. What is associated Control of test ite	ers I SRS that cause efects by develo er a user to secul flowing technique chnique technique ted with produc	d changes in temperate team ure gateway we will ensure to b) Risk M d) All of the ct risk?	st cases hile paying that impact of itigation technology the above b) Negative	of risk will be hnique	
c) non-availability of	f test environme	ent	d) Test ob	ject	
18. Risk manageme a) True	ent is important b) Fals		ct manageme	ent. True or	false.
19. After deployme functionality. Wa) QA personnel	•	letermine how		hamper the	•
10. Which is/are wa	ave to doal with	rick?			
a) Mitigate	b) Continge		ransfer	d) Ignore	e) All of the above

User Interface Design

- 1. Which of the following is golden rule for interface design?
- a) Place the user in control b) Reduce
 - b) Reduce the user's memory load
- c) Make the interface consistent d) All of the mentioned

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		ciple that allow the user to	maintain control?
a) Provide for flexible	ion to be interrupt-able	and undo-able	
•	ernals from the casual		
•		that appear on the screen	
a, besign for an eee in	teraction with objects t	mat appear on the sorter.	
3. Which of the follow	ving is not a user interfa	ace design process?	
a) User, task, and env	rironment analysis and i	modelling	
b) Interface design			
c) Knowledgeable, from	equent users		
d) Interface validation	1		
4. When users are inv	olved in complex tasks,	the demand on	can be significant.
a) short-term memory	•	b) shortcuts	
c) objects that appear		d) all of the mentioned	
5. Which of the follow	ving option is not consid	dered by the Interface desi	gn?
a) the design of inte	rfaces between softwar	re components	
b) the design of inte	rfaces between the sof	twa <mark>re and human produce</mark>	rs and consumers of information
c) the design of the	interface between two	computers	
d) all of the mention	ied		
6. A software might a	llow a user to interact v	via	
a) keyboard command	s b) mou	use movement	
c) voice recognition co	ommands d) all o	f the mentioned	
7. A software enginee	er designs the u <mark>ser inter</mark>	face by applying an iterati	ve process that draws on predefined
design principles.	W/		
a) True	b) False		
8. What incorporates	data, architectural, inte	erface, and procedural rep	resentations of the software?
a) Design model	b) user's model	c) mental image	d) system image
	ne profile of end-users o	·	
a) Design model	b) user's model	c) mental image	d) system image
	ne outward manifestation describe system syntax	· ·	system, coupled with all supporting
a) Mental image	b) interface design	c) system image	d) interface validation.
	-		
	D	ev0ps	
Q.1) Which one of t	the following method	ologies does least impac	t the establishment of DevOps

b) Agile Software Delivery.

methodology?
a) Lean Manufacturing.



- c) Waterfall Software Delivery.
- d) Continuous Software Delivery.
- 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) 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 in<mark>itiatives</mark> 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.

