

Software Engineering Question Bank

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1.	In use-case diagra	m, what is system ill	ustrated by?					
	Oval	b) Box	c) Circle		d) Triangle			
2.	UML supports	phases o	of software developmen	t				
a)	Earlier	b) Final	c) Middle	d) All				
3.	Requirement anal	ysis						
a)	Delivers a system	n in a series of version	ons					
b)	Organizes abstra	ction						
c)	c) Builds a bridge between user and developer							
٩)	1) Uses experimental software to better understand user requirements							

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

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	=		lves choosing a sy	stem structure capable of	<u>:</u>
	requirement speci				
a) Require	ement analysis	b) Design	c) Coding	d) Testing	
6. Pick up th	e odd one out of t	he following			
a) Data flow di	agram	b) Object ider	ntification		
c) Structural de	ecomposition	d) E-R diagra	ms		
7	Lifecycle mod	el describe how s	software system s	hould be developed and d	escribe
how softw	are are actually d	eveloped.			
a) Prescriptive	& Descriptive	b) Preso	criptive & Definiti	ve	
c) Descriptive 8	& Prescriptive	d) Desc	riptive & Intuitive		
8. The require	ment phase consi	st of			
•	alysis B) nt validation D) Pi	•			
•				n	
a) A, B, C	b) A, B, C, D	С) А, Б, І	d) A, C, I		
9	is a method for	estimating the s	oftware 1111	77.	
a) COCOMO	h) Function Point	Analysis () Use	Case Estimation	d) All of the above	
a, cocoo	S) i directori i ome	7 that your cy cose	case Estimation	a, 7 in or the above	
10. The eleme	ents of the softwar	e architecture of	a computing syst	em include	
1) Software co					
2) Class diagra	•				
	expressing relation	nship <mark>s betwe</mark> en	software compon	ents	
-	ionship diagrams			A	
a) 1 & 2	b)	1 & 3	c) 1, 3 & 4	d) 1, 2, 3	
& 4					
-	a software to perfo	orm intended fun	ction with minim	um consumption of comp	uting
resources					
a) Efficiency	b) Robu	stness c) Reliab	ility d)	Correctness	
12. Ability to disk crash		nal conditions e. _{	g. invalid input, im	nproper handling, power fa	ailure,
a) Efficiency	b)	Robustness	c) Reliability	d) Correctness	
13. The type o	f testing carried οι	ut along with cod	ing is called		
a) System testi	_	Unit testing	c) Pretesting	d) Stress testing	
., . ,	,	- · · · · · · · · · · · · · · · · · · ·	5, 11 2 2 2 2 1 1 1	a, ca ca ca	
	bility is the ease w		are can		
•	ed if an error is er				
b) Adapted if	f its environment o	changes			
c) Enhanced	if the customer de	esires a change ir	requirements	d) All of above	
15. The type of	of software mainte	nance which is d	one to remove bu	igs or defects in the softwa	are is

called



a) Corrective Maintenance	b) Adaptive Maintenance	
c) Regressive Maintenance	d) Perfective Maintenance	9
16. RAD stands for		
a) Rapid Application Development	b) Random Access D	Disc
c) Random Application Driver	d) Rapid Alignment	Disc
17. Which of the following is not tru	ue about Component Assembly	Model
a) It is similar to the Spiral Model		
b) The technical framework for this	s model is provided by object to	echnologies
c) Candidate classes are extracted	from class library or developed	I
d) Its productivity is low		
18. Which of the following is not tru	ue about the context diagram?	
a) It does not show details of the fu	nctioning b) It shows major in	puts & outputs of the system
c) It shows the external entities of th	e system c) It shows the	e data stores of the system
19. Data Items in a data dictionary a	are description of	
a) Input data b) Data flow		d) All of the above
a) input data	c) Data stores	d) All of the above
20. The ways of describing specifica	tions at different levels of deta	il include
V	b) Requirements specification	in include
c) Both a and b options	d) None of these options	
21. Stable requirements are		
a) Requirements related to the co	re activities of software custor	mer
b) Requirements which are dependent	<mark>dent o</mark> n the en <mark>vironme</mark> nt where	e the delivered system is to be
used		
c) Both a and b options		
d) None of these options		
22. Functional Independence is not	achieved by	
a) Coupling b) Modularity	c) Information Hiding	d) Any of the above
23. If two modules are coupled with	=	•
, , ,	np Coupling c) Contro	ol Coupling d) Common
Coupling		
24. Which of the following is a grap	hical tool for software design?	
a) Data Flow Diagram b) Structure	Chart c) Decision Tree d) A	ll of the above
25. Changes made to the software t	o correct defects uncovered af	ter delivery is called
a) Perfective maintenance	b) Regressive maintenance	ce
c) Adaptive maintenance	d) Corrective	
maintenance		



26. Arrange the fol Effort	lowing in the	correct sequ	ience of software est	imation a. Sch	nedule Estimation b.
Estimation c. Cost I	Estimation d. S	Size estimat	ion		
			c) D, B, A, C	d) A C D	B
			project will result in t		
implemented ir	า			tile silialiest L	OC II
a) Assembly	b) C	c) C++	d) Visual Basi	ic	
28. Project schedule	e can be illustr	ated using			
a) DFD and ERD	b) Bar cha	art	c) Activity chart	d) Both b	and c options
29. Most of the pro	oject plans sho	ould include			
•	-		Project schedule d)	All of the abo	ve
•		•	een the different acti		
	•		taffing Plan d)	_	ap a p. 0,000
31. Chief Programr	ner Teams are	suitable fo	r projects	A.	
a) With research ori	ientation	b) With h	nigh modularity	4-0-	
c) With high creativ	ity ////	d) None	nigh modularity of these	ITIA	
32. Judging the ser called	iousness of a	risk by eva <mark>lu</mark>	ating its probability a	long with its	consequences is
a) Risk analysis	h) Risk Pr	oiection	c) Risk Estimation	d) A	All of the above
a, mak anaryais	5 , 11151(11	ojection.	c) Mak Estimation	4,7	iii or the above
33. The RMMM pla	n is generally	included in	the		
a) Feasibility Study		Proj <mark>ect Plan</mark>		nent	d) Project Legacy
24 Invalid data Da	ct() putc \A/N/	DAINT mass	ago in massage guay		
	V		sage i <mark>n messa</mark> ge queu	le.	
a) True b) False	C) N	ot Always		
35. Update Window	w() paints the	client area.			
a) True b) False	c) N	ot Always		
36. HINSTANCE typ	e variable sto	res id of run	ning application		
a) True b) False	c) N	ot Always		
37. The WM_INITD	IALOG messa	ge is sent to	the dialog box proce	dure immedia	itely before a dialog
box is is played					
a) True b) False	c) N	ot Always		
38. Send Message	is not directly	send to the	window procedure.		
a) True b) False	c) N	ot Always		
39. Icon is a Text re	esource.				
a) True b) False	c) N	ot Always		

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40. Sub classing	means changing	ine benaviour	or controls.	
a) True	b) False	c) Not	Always	
41. CALLBACK fu	nctions are called	d by the opera	ting systems.	
a) True	b) False	c) Not		
•	ot related to callin	•	•	
a) True	b) False	c) Not		
a) Truc	b) i dise	c) NOC	niways	
43. Which of the	following operat	ions is provide	ed by a common dialog	box?
a) Choosing an ic	;	b) Choosing a	a network drive.	
c) Choosing a dat	tabase.	d) Choosing	a font.	
11 What is the r	orimary differenc	e hetween Ser	nd Message and Post M	Sancasal
•	•		e Post Message issued	<u> </u>
_		-	_	•
time.	ge can only be use	ed within a wo	rker thread, while Post	Message can be used at any
	ge can only send i	nessages to th	e application thread, w	while Post Message can send
messages to	any thread.	ram	Viantr	7. 🔼
		ithin a Wi <mark>ndo</mark>	ws procedure, while P	ost Message is called from
within messa				
45. Menu is	_			
a) GDI Object	b) Resource	ce	c) P <mark>icture</mark>	
.,	,		-,,	
46. Following is r	not type of Device	e Context		
a) Screen Device	Context	b) Win	ido <mark>w Device</mark> Context	
c) Client area Dev	vice Context	d) Vie	w <mark>Device C</mark> ontext	
47. Modal Dialog	g Box is created o	n	&Mode less Dialog I	Box is created on
a) Heap , stack	h) Stack	hean		
a) Heap, stack	b) Stack,	псар		
48. Which of the	following are res	sources.		
a) Menu	b) Bitmap	c) Status Bar	Icon	
49	function crea	tes model dial	og hov	
			c) Dlg Box()	d) Haknowa
a) Create Dialog()	5, 5	ialog box()	c) Dig Box()	d) offkriown
50	is return type o	of window pro	cedure.	
a) Handle to the v	window	b) LRESULT	c) BOO	L
51 To subclass w	vindow's hackgro	und hrush	API call is use	d
a) Set Class Long(Joet Class()	D) Set Long Class()	c) Settiing()

52. The three classes of interface errors are:

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a) Inter face misu	use b) Interfac	e misunderstandir	ng c) T	iming errors
53	is first mess	age passed to wind	dow procedure.	
a) WM_PAINT WM_COMM	b) WM_CR	EATE		
54	function creates m	odeless dialog box		
-	()Dialog() b)Cr		c)D	ialog Box()
	ows messages in higher		ITTONID OVA/AL	d) C M)
WM_PAINT	b) Posted Messa	ige c) WIVI_LBU	JITONDOWN	d) Sent Message e)
	b) 5, 4, 3, 2, 1	c) 2,3,4,	5,1 d)3	,4,5,1,2
56. Write steps	to create standard winc	lows application		
1. Initialise and	l Register Window class			
2. Create wind	ow			
3. Display Wind	dow	7 /		A
 Message Ioo WndProc 	Shrira	m Mc	untri	
a) 1, 2, 3, 4, 5	b) 2, 3, 4, 5, 1	c) 3, 4, 5,	1,2 d)4	, <mark>5</mark> ,1,2,3
•	orogram should have a in and Translate Message()	A		
a) True		c) Not always	ges from the me	essage queue.
,				
58. Get DC() is u	sed to retrieve the <mark>devi</mark>	ce context handle	for the window	s client area when
-	WM_PAINT message.			
a) True	b) False	c) Not always		
•	•	M_CHAR message	will be generate	ed and the ASCII code of
	be stored in Parma.	a) Nick charac		
a) True	b) False	c) Not always		
	•	_	-	NDOWN messages are of x and y coordinates of
a) True	b) False	c) Not always		
61. Predefined o	controls send WM_COM / message.	IMAND message w	hereas commo	n controls send
a) True	b) False	c) Not always		
62. A Device Cor	ntext is a GDI structure,	which deals with t	text and graphic	S.
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 i True b) Fals		mation between applications or within application. a)
65. Win Main is a	an entry point for windo	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 A	API function which expli	citly calls Operating System to run Window
a) True	b) False	c) Not Always
68. When function	on key(s) pressed on the	e keyboard that time WM_KEYDOWN message is generated.
a) True	b) False	c) Not Always
	Classica	Maradani A
69. LRESULT is a	return type of Dialog Pr	ocedure.
a) True	b) False	c) Not Always
70. Set Pixel is us	sed to draw a particular	p <mark>ixel with</mark> a <mark>particular colour.</mark>
a) True	b) False	c) Not Always
71. GetROP2 () is	s used to get the curr <mark>en</mark>	<mark>t draw</mark> ing mod <mark>e.</mark>
a) True	b) False	c) Not Always
72. Palette is an	attribute of a de <mark>vice co</mark>	<mark>nt</mark> ext.
a) True	b) False	c) Not Always
73. Windows TIN	ΛΕR is not an input devi	ce.
a) True	b) False	c) Not Always
74. In MDI applic	cation the default windo	ow procedure for main Window is Def. WindowProc ().
a) True	b) False	c) Not Always
75. The WM_INI box is display		nt to the dialog box procedure immediately before a dialog
a) True	b) False	c) Not Always
76 In MDI applic	ration child windows are	e created by mainframe windows.
a) True	b) False	c) Not Always
a, mac	S) Taise	of Not Always
77. Cursor is a Gl	DI Object.	
a) True	b) False	c) Not Always



78. Sub Classing ii					
a) True	b) Faise	c) Not A	aiways		
79. Colour Dialog	box is a commo	n dialog box.			
a) True		=	lways		
			ve double click mou in a window class s		
a) RegisterClassEX	((). b) C	S_DBLCLKS	c) CS_DBLCLICKS	d) (CS_DBLS e)
CS_DOUBLECLICK	S				
81	ic uso	d to play the m	etafile		
			b) Open Meta fi	اام	
			s include		er
	b) Co	OMCTL	c) COMMDLG	d) COMN	ICTL
	OI .		71.77	• 🛦	
83. You can obtai	n the state of Sh	ift keys by usir	glant	function.	
a) Get Key State()	b) Ke	ey get Valu <mark>e()</mark>	c) Get Sta	te() d)	Get Status()
04.5.					
84. Entry point fu				() D ()	
a) Main()	b) DLL Main()	C	Start DLL()	d) Run DLL ()	
85	is a functi	on for creating	a Thread.		
a) New Thread()			Cre <mark>ate Thre</mark> ad Inst	ance () d)	Create Thread (
)					`
86. Pick up one of	the testing met	hods given bel	ow that is part of w	hite-box testing:	N.
a) Equivalence par	titioning	b) Boundary v	alue analysis	c) Basis path te	esting
			v fur		
a) Paint Icon()	b) Paste Id	con() c	Draw Icon()	d) Load Icon ()
88 Vou can create	e a logical font h	y calling which	of the following fu	nctions	
			c() c) CreateF		d) New Font
()	۵, ۵.	edeci orredirect	o, e. cate.		a, new rome
89. Dynamic Linke	ed Library is load	led in the mem	ory at		
	b) Run tim		· ———	d) Compile Tim	ne.
90. Menu is					
a) GDI Object	b) Resourc	ce c)	Picture	d) Item	
04 \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	المناجعة المعادية	ے ۔ ۔ ۔ ۔ ۔ ۔ ۔ ۔ ۔ ۔ ۔ ۔ ۔ ۔ ۔ ۔ ۔ ۔ ۔	daka awallahiri 19	مام م سحا	
			data available in clip		
a) Is Clipboard For				Contain Data ()	
c) Is Type of Data (J	u) set (Clipboard Data ()		



92. Following op	•				
a) MM_ISOTROP	C b) N	1M_TEXT	c) MM_B	SITMAP	d) MM_HIMETRIC
93. Following is	not a type of dev	vice context			
a) Screen Device (Context	b) W	indow Device C	Context	
c) Client Area Dev		-	w Device Cont		
c, cheffe filed bev	ice context	a, vic	W Bevice Come	CAC	
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	f virtual ad	dress space.
a) 4 GB			d) 64 MB		aress space.
a) 4 GB	b) 2 GB	C) O GB	u) 04 IVID	•	
96. Default size o	f heap is				10.0
a) 2 MB	b) 1 MB		c) 32 MB	d)	None of the above
	Shri	ram	VIOI	ntri	None of the above
97. Following is n	ot a bitmap rela	ted API call.	IVALUE		
a) Paste Bit ()			etch Blt ()	d) Dat B	ult ()
a) raste bit ()	b) bit bit ()	c) Str	etch bit ()	ujrati	110 ()
98. Windows Me	ssage contains f	ollowin <mark>g info</mark>	rmation.		
a) Visible property	of a window	b) Ca	ption of windo	w	
c) Handle of wind	V		ot class of a wi		
.,				/ /	
99.	is a lowest pri	ority message	e in Windows P	rogrammin	ng. (Win 32 Programming)
a) WM_PAINT b)		A	c) WM CHAR	A-	<i>y</i> 1
., <u>.</u>				A	
100. SetROP2() fu	unction is used t	o change the	Raster Operati	on the Dev	ice Context. a)
True	b) False		c) Not Alw	/ays	
101. Create Enh I	Meta File return	s handle of th	ie metafile a) ⁻	True	b)
False	c) N	ot Always			
102. Clipboard ca	an store 'n' no of	formats at a	time		
•	b) False	Torritats at a		MANG.	
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,α.ς	3,13.33		5, 11517 11	,.	
104. With Creat	e Window		and		functions are
	play the window				
a) Display Window	· · · · · · · ·		h)	Show Wind	dow(), Dialog Box()
	• •		•) . Repaint Window ()

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c) WM_ONMOUSEMOVE d) None of these 110. When child Control in a dialog box is activated window sends which message? a) WM_COMMAND b) Send Dlg Item c) WM_NOTIFY d) WM_ACTIVATE 111. Which function will test whether the message is the dialog box or the window? a) Dlg Message() b) Send Dlg Message() c) Translate Message() d) Is Dialog Message() 112. Which function creates a modal dialog box? a) Create Dialog() b) Dialog Box() c) Do Modal() d) Create Dialog Box() 113. Which function creates a modeless dialog box? a) Create Dialog() b) Do Modal() c) Dialog Box() d) Create Dialog Box() 114. Modal Dialog Box is destroyed by calling which function? a) End Dialog() b) Destroy Dialog() c) End Dialog Box() d) End Modal() 115. Which function sends a message to controls in a dialog box? a) Send Dlg Item Message() b) Send Dialog Message() c) Send Dialog Item Message() d) none of these		to
106. The layer between the application and different types of hardware a) Application Layer b) GDI layer c) Data Layer Shell Layer 107. The Message received if the right mouse button is pressed in the non-client is a) WM_RBUTTONDOWN b) WM_NCRBUTTONDOWN c) WM_NCIRBUTTONDOWN d) WS_RBUTTONDOWN 108. In order to receive DoubleClick message a window must be created with which window style? a) 1DB_DBCLK b) CS_DBLCLICK c) CS_DBLCLKS d) CS_DBLCLK 109. Which message helps in detecting mouse movement and finding mouse cursor position a) WM_MOUSEMOVE b) WM_MOUSEPOS c) WM_ONMOUSEMOVE d) None of these 110. When child Control in a dialog box is activated window sends which message? a) WM_COMMAND b) Send Dlg Item c) WM_NOTIFY d) WM_ACTIVATE 111. Which function will test whether the message is the dialog box or the window? a) Dlg Message() c) Translate Message() d) Is Dialog Message() 112. Which function creates a modal dialog box? a) Create Dialog() b) Dialog Box() c) Do Modal() d) Create Dialog Box() 113. Which function creates a modeless dialog box? a) Create Dialog() b) Do Modal() c) Dialog Box() d) Create Dialog Box() 114. Modal Dialog Box is destroyed by calling which function? a) End Dialog() b) Destroy Dialog() c) End Dialog Box() d) End Modal() 115. Which function sends a message to controls in a dialog box? a) Send Dlg Item Message() b) Send Dialog Message() c) Send Dialog Item Message() d) none of these	perform certain task in the windows environment.	
a) Application Layer b) GDI layer c) Data Layer Shell Layer 107. The Message received if the right mouse button is pressed in the non-client is a) WM_RBUTTONDOWN b) WM_NCRBUTTONDOWN c) WM_NCIRBUTTONDOWN d) WS_RBUTTONDOWN 108. In order to receive DoubleClick message a window must be created with which window style? a) 1DB_DBCLK b) CS_DBLCLICK c) CS_DBLCLKS d) CS_DBLCLK 109. Which message helps in detecting mouse movement and finding mouse cursor position a) WM_MOUSEMOVE b) WM_MOUSEPOS c) WM_ONMOUSEMOVE d) None of these 110. When child Control in a dialog box is activated window sends which message? a) WM_COMMAND b) Send Dlg Item c) WM_NOTIFY d) WM_ACTIVATE 111. Which function will test whether the message is the dialog box or the window? a) Dlg Message() b) Send Dlg Message() c) Translate Message() d) Is Dialog Message() 112. Which function creates a modal dialog box? a) Create Dialog() b) Dialog Box() c) Do Modal() d) Create Dialog Box() 113. Which function creates a modeless dialog box? a) Create Dialog() b) Do Modal() c) Dialog Box() d) Create Dialog Box() 114. Modal Dialog Box is destroyed by calling which function? a) End Dialog() b) Destroy Dialog() c) End Dialog Box() d) End Modal() 115. Which function sends a message to controls in a dialog box? a) Send Dialog Item Message() b) Send Dialog Message() c) Send Dialog Item Message() d) none of these	a) GDI32.DLL b) KERNEL32.DLL c) USER32.DLL d) WIN32.DLL	
a) Application Layer b) GDI layer c) Data Layer Shell Layer 107. The Message received if the right mouse button is pressed in the non-client is a) WM_RBUTTONDOWN b) WM_NCRBUTTONDOWN c) WM_NCIRBUTTONDOWN d) WS_RBUTTONDOWN 108. In order to receive DoubleClick message a window must be created with which window style? a) 1DB_DBCLK b) CS_DBLCLICK c) CS_DBLCLKS d) CS_DBLCLK 109. Which message helps in detecting mouse movement and finding mouse cursor position a) WM_MOUSEMOVE b) WM_MOUSEPOS c) WM_ONMOUSEMOVE d) None of these 110. When child Control in a dialog box is activated window sends which message? a) WM_COMMAND b) Send Dlg Item c) WM_NOTIFY d) WM_ACTIVATE 111. Which function will test whether the message is the dialog box or the window? a) Dlg Message() b) Send Dlg Message() c) Translate Message() d) Is Dialog Message() 112. Which function creates a modal dialog box? a) Create Dialog() b) Dialog Box() c) Do Modal() d) Create Dialog Box() 113. Which function creates a modeless dialog box? a) Create Dialog() b) Do Modal() c) Dialog Box() d) Create Dialog Box() 114. Modal Dialog Box is destroyed by calling which function? a) End Dialog() b) Destroy Dialog() c) End Dialog Box() d) End Modal() 115. Which function sends a message to controls in a dialog box? a) Send Dialog Item Message() b) Send Dialog Message() c) Send Dialog Item Message() d) none of these		
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116. The register() function takes a pointer to the Windlass structure as a parameter a)	, , , , , , , , , , , , , , , , , , , ,	
	c) Send Dialog Item Message() d) none of these	
True b) False		
	True b) Faise	
117. WM_CHAR is a combination of WM_KEYUP and WM_KEYDOWN. a) True b) False		

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

b) False

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119.	The ID valu message.		child window is pas b) False	sed by Param Paramete	er with the
120.	In which m	essage it i	s better to initialize	e 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 F d) Copy Data Ge		rmat Meta File to a)
	Translate M	essage De		ction that translates to	an ANSI Character
123.	Screen Coor	dinates a	re pixels measured	from the upper left cor	ner of the window's client area
a) Tr	ıe	b)	False	Marate	
124.	Select Obje	ct functio	n obtains an object	t from Device Context	a) True b) False
125.	Create pen	Return ha	andle to Old Pen a) True	b) False
126.	Which func	tion use t	o copy file fr <mark>om on</mark>	e Device context to and	other
127.	Device Con	text Bit Cr	eate Com <mark>patible D</mark>	c Copy <mark>Copy Bit</mark>	
	Handle to E		HACCEL	c) HDC d) HE	BMP
129.	To Create Th	nread Fun	ction used is		
a) Be	gin Thread	b) (Create Thread	c) do Thread	d) Create
130.	-	TE Messag False	ge is generated afte	er Window is Displayed	a)
131.	The Thread	Control P	anel is capable of p	performing the followin	g
	tting Thread suming Threa			b) Suspending a Thread) Terminating a Threa	
132.	Which value	es are use	d to Set thread pric	ority	
a) 15		b) -2	c) 4	d) -1	
133.	To display a	modeless	dialog which prop	erty u have to add in its	s resource files?

c) WS_VISIBLE

b) WS_SHOW

a) WM_SHOW

d) WS_DISPLAY



134. A Mouse Click or	n Menu Bar genera	ates:	
a) WM_COMMAND	b) WM_NC	OTIFY c) WM_CHAR	d) WM_MENUCLICK
135. Change in the size		<u>-</u>	
a) WM_RESIZE	b) WM_SIZE	c) WM_CHANGE	d) WM_COMMAND
136. Get Text Matrix a) True b) Fa	•	physical diminution of the f	ont currently selected in the DO
137. Begin Paint() Pro	epares the window	vs client area for painting.	a) True b) False
138. Rectangle funct	ion takes :		
a) 2 Parameters	b) 5 Parameters	c) 4 Parameter	d) None Of the Above
139. The Windlass Str	ucture must be re	gistered with the window b	pefore it can be used to create a
1.window. a) True	b) False	m Mant	ri
140. To halt the execta) Kill Thread()		ad() c) Terminate Thread() d) None of These
141. The following are a) Analysis b) Desig			
141. The SDLC Model requirements is	most suitable for	large projects with clear kn	owledge & priority of
a) Spiral Model	b) Increme	ental Model	
c) Waterfall Model	d) Prototy	ping Model	
142. Which of the foll	owing is not true a	about the Waterfall Model?	
a) It is suited for small	projects	b) It does not consid	der risk handling
c) It gives efficient sta	ff utilization	d) It needs clarity o	f requirements at start.
143. Prototyping in so	oftware process ma	ay involve	
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	require largest deploymen	t of manpower a)
Incremental Model	b) V	Vaterfall Model	
c) Component Assemb	ly Model	d) RAD Model	
145. The majority of t	he lifetime of a pro	ogram is spent in the	phase a) Maintenance
b) Analysis	c) Design d) T	esting	



146. In Boehm's spira	al model, each loop i	in the spiral represents $__$	of the software process a)
Phase	b) Design	c) Documentation	d) None of the above
147. Which of the fol	lowing is seen in the	e DFD but not in the Conte	kt Diagram
a) Data Sources	b) Data Flows	c) Data Stores	d) Users
148. Data flow cannot	t take place betweer	1	
a) A store & a process	b) Ext	ernal entity & process	
c) Store & an externa	l entity d) Pro	cess& process	
149. "Balancing of DI	-D" is means		
a) Conservation of i	nputs & outputs at	various levels	
b) Sub dividing a pro	-		
c) Labelling of all da	ta items	•	
,		y to or from processes	
150 A data flavo diag	Made in made is	3.6	
a) Logical model of a s	ram is not a	b) Good guide	12 I A
c) Representation of			
c) Representation of	the physical system	d) All of these	options
151. DFDs, decision t	ables, decision trees	s are tools of	
a) Requirements analy		b) Requirements modelling	,
c) Software Design		d) All of the above	
.,			
152. Which model us abstract to fairly	W SO A	ocessing at different levels	of abstraction from fairly
a) Semantic Data Mo	dels b) O <mark>bject M</mark>	odel c) Data Flow Models	d) Service Usage Models
153 Models	describe the logical	structure of the data whic	h is imported to and exported
by the system.			
a) Object b) S	Semantic data	c) Data flow	d) None of the above
154. Which of the fol	lowing is true about	E-R Diagrams?	
a) They consist of obje			icates cardinality of relationships
c) It indicates modalit	y of relationships	d) All of t	
155 Which of the fol	lowing is not a char	acteristic of a good SRS doo	sumant?
a) Unambiguous	b) Verifiable	c) Redundant	d) Consistent
a) Onambiguous	b) vermable	c) Reduildant	u) Consistent
156. Find the odd on	e out		
a) Axiomatic Specifica	tion	b) Algebraic Specification	
c) Z Specification		d) Data Flow Diagram	
157. Which is the mo	st undesirable form	of cohesion from the follo	wing options
		c) Temporal	- •



158. The external inte	erface design	process sho	ould be	a)	
Developer centered		b) User c	entered		
c) Administrator cente	ered	d) Manage	ment cente	ered	
159. Which of the foll methodologies	owing is true	with respe	ct to functi	on oriented & ob	ject oriented design
a) They vary in the ba	sic abstractio	ons they use	جَ آ		
b) They vary in the wa	ay state infor	mation is m	aintained		
c) They vary in the wa	ay functions a	are grouped	l		
d) All of the above					
160. In which of the fo	ollowing phas	ses of a use	-case drive	n process do you	think use cases have a
role? a) Requirem	ents capture	b) Analysis	c) Design o	d) Implementation	n e) Test
a) A, B & C	b) A, B, C &		c) B & D	d) A, B, C,	
161. Which of the foll	owing is NOT	true about	comment	S	4
b) Comments should	use problem	domain ter	minology	aratus.	
b) Comments should b) They should explain	ain the code a	at crucial pl	aces only	uniri	
c) They should be us	sed to docum	ent change	s to the co	de	
d) They add up to the		9 /			
a, me, and up to t					
162. Use of coding sta	ndards				
a) Eases the task of i		software n	nodules		
b) Enhances the soft	\ <u></u>	7 / /			
c) Enhances reusabil	V	0	.HC		
d) All of these option		twart			
a) And these option	113				
162.	is a nrogram	nming meth	od which o	omhines data an	d instructions for
processing that da		_			
a) Modular programm		Samerene		wn design	iei programs.
c) Object oriented pro	_			ired programming	σ
e, object offented pro	В ш п		a, stracte	rea programmi	b
163. A test case desig	n technique t	that makes	use of a kn	owledge of the ir	nternal program logic
a) Black Box Testing	•	nite Box Te		_	
a) Black Box Testing	۵, ۱۱۰	THE BOX TE	, til. 19	c) Office resting	a, None of these
164. Black box test ca	icac can ha de	arived from			
a) Source code				cument	d) Pseudo code
a) Source code	D) I lowcilai	11	C) SNS DO	Jument	u) rseudo code
165. Which of the foll	owing is true	about Bou	ndary Valu	е	
Analysis?	ا مماممامما	مديره ما ياه مار	at aaaa		
a) It is an approach t	.o uesigning D	nack box te	si cases		
b) It is complementa	rv to Equivale	ence Class F	Portioning		
c) It gives test cases	-		_	uivalence classes	d) All of the above
, 5					

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166. Cyclamate compl	exity is calculated	from		
a) Data Flow Graph		b) Structure C	nart	
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	_) All of the above
168. Effective Softwa				
a) People b) Pr	oblem	c) Process	d) All of above	
169. Which of the follo Configuration Manage b) Risk Management P	ement Plan	b) Quality A	e SPMP document? a) Assurance Plan rements Elicitation Plan	
	justed Function Po roject Duration		OC count is dependent or mming Language	d) Cost Drivers
171. The critical path	of PERT/CPM chart	cannot be		
a) The path with the				
b) More than one un	V -			
c) Path on which any	The state of the s	ed		
d) Path with same ea 172. Which of the follo a) Performance	owing are S <mark>oftware</mark>			ove
173. The total float for The total duration of t	• •			
	tween the earliest	finish time and	earliest start time	
c) The difference be	tween the latest f	inish time and	the earliest finish time	
d) The difference be	tween the latest fi	nish time and t	he earliest start time	
174. According to the peaks during the _	٠.	a software pro	ject follows the Rayleigh	-Norden curve and
	b) Coding 8	Unit testing		
c) Integration Testing	d) System T	esting		
175. Arrange the follo Identification c. Ar	_	isk Assessment	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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a) Using objective methods of estimation rather than judgmental methods

b) Developing a culture of software reuse



c) Performing multisd) All of the above	source estimations		
177 Under SCM the v a) By their respective a c) In a central project		naintained b) By the appropriate to d) All of the above	eam
178 Cleanroom Softwa) Formal Specification	vare Development proce n b) Static Verifica	ss is based on ation c) Statistical Testin	g d) All of the abov
179. Which one of the a) Decision table	e following is method is b) Structure English	not used in describing co c) Finite automata	
180. c from the relational Productivity=KLOC/	person-month	b) Productivity=KLOC/c d) Productivity=KLOC*p	- 0
181. The goal of codina) To reduce the cost of Both a & b		o reduce the cost of mair one	ntenance
182. Bottom of Form Top of Form Broad design of modu a) External design	ules & their rel <mark>ationshi</mark> p b) Detailed design		esign d) Process design
,		t Life Cycle Model to be f	
A) Initial Clarity of Req C) Time Frame of the I a) A, B & C only	Project	B) Size of the Project D) Clarity on Technical I c) A, B, C & D d) A &	
184. The SDLC Model a) Spiral Model		projects with clear requince) Waterfall Model	
185. The Linear Seque a) Waterfall Model	ential or Classic Life Cycl b) Incremental	e is also called Model c) Spiral model d	l) Prototyping Model
186. The waterfall mo	odel of the software pro	cess considers each proc	ess activity as a
a) Separate	b) Discrete c) Bo	oth a and b options	d) None of the above
	lowing is not a feature o constrained & modulari		



- b) Component based construction & use of 4 GLc) Use of multiple teams each developing separate function
- d) Project has high technical risks

a) The leve	l of risk		spiral at any point re b) The progress n d) None of these	made in th	e current phase	
· · · · · · · · · · · · · · · · · · ·	uses pov	verful developm	ent software and si	mall, highly	trained teams of	
a) Prototyp		b) RAD	c) Coding	d) N	Modeling	
modules is	_	. •	cture & control rela b) High Level Desi	•		
	10h. 1 M	the second second second second	rongly and w		designs	
c) Cohesive	e, coupled	d) Coupled, c	ohesive			
192. Use c	of global data are	eas or global var	iables may lead to			
a) Stamp (Coupling	b) Common (Coupling			
c) Content	Coupling	d) Contro <mark>l Co</mark>	upling			
193. Func	tion oriented de	sign process cor	nsists of			
	w Design		decomposition			
c) Detailed	_	d) All of the				
194. Trans	sform Analysis pe	erformed on a D	FD identifies the			
a) Afferen	t Branch	b) Efferent Br	ranch			
c) Central 1	ransform	d) All of the a	above			
	wo questions "A pond to	re we building t	he right product?" {	&"Are we bւ	uilding the product r	ight?'
a) Verificat	ion only		b) Valida	tion only		
	on & Verification h of the followin		d) Verific box testing method		dation respectively	
	nt coverage	_	r guessing	4		
c) Path cov	_	· ·	dition Coverage			
c, r attreov	cruge	d) cone	and coverage			
197. A Tes	t case includes					
a) Input	b) Expected or	utput c) Infor	mation of function	under test	d) All of these op	tions
198. A stu	b is a dummy ve	rion of the	module of t	the module	under testing	
			te c) Coordii			2

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199. A driver	is a dummy v	ersion of the	module	of the mod	ule under testing a)
Superor		b) Subordinate			d) All of the above
200	exercises	the system beyor	nd its maximum d	lesign load	
a) Thread test	ing	b) Stress Testi	ng c) Back to bac	k testing	d) All of the above
201. Presenti	ing the same t	ests to different	versions of the sy	ystem and c	ompare outputs is called
a) Thread test	ing	b) Stress Testi	ng c) Back to bac	k testing	d) All of the above
		g is not a part of	<u> </u>		
a) Risk Manag	ement Plan	b) Perso	nnel Plan		
c) Project Mei	ntoring Plan	d) Softw	vare Architecture	Planning	
		_	projects of same	category wi	th the same estimated LOC
	_	O for estimation	sets will be some	as bath hav	o sama LOC
-			ects will be same		. A
•			s be the same for		
-	VI.		the same for both		
a) Only A is t	rue. b) Only	A & B are true	c) Only C is true	a) Neither A	A, B or C are true.
204. In COCO	MO terminol	ogy a project w <mark>itl</mark>	h software being	strongly cou	upled to complex hardware
& stringe	nt regulations	s on operatin <mark>g pr</mark>	ocedures is categ	<mark>orise</mark> d as	
a) Organic	b) Semid	etached	c) Embedded		d) Application
			/		
		No. of the second second	the project can be	e estimated	by considering the
•	ne activity gra				
a) Shortest	b) I	onges <mark>t</mark>	c) Average	d)	SPT
206. PERT/CF	PM cannot be	used for			
a) Scheduling	of projects		b) Monitoring	3 & Control	of projects
c) Optimizing	Resource Util	ization	d) Quality co	ntrol of pro	ducts
207. Democr	atic team stru	cture is suitable	for projects		
a) With strict	deadlines	b)	With clearly know	wn requiren	nents
c) With resea	rch orientatio	n d)	None of these		
208	ensures	that a set proce	dure is followed t	to make any	changes to the software
a) Configurat above	ion Identifica	tion b) Conf	figuration Contro	d c) Base	e lining d) All of the
209. Configu	ration Manag	ement is			
a) Framework	activity	b) Umbrella ad	ctivity		
c) One time a	ctivity	d) None of the	above		

210. CASE stands for



· · · · · ·	vanced System Engineeri hmetic System Engineeri	_	None of the above	e Engineering
211. Requiremen	nt phase is usually done b	ру		
a) System Analys	t b) System A	dministrator	c) System Engineer	d) All
	of the following is not co	•	rameter of function poin	t a)
c) Number of file	d) Number o	of output data		
213. Cohesion is a) Intra-Module	the concept which tries to b) Extra-Module	to capture this c) Inner-N	лodule d) Outer-М	Iodule
a, mila Module	b) Extra Module	c) iiiici ii	noddie dy Odter iv	iodaic
214. Functional a	approach is also known a	S		
a) Glass box testii	ng b) Black box	testing		
c) Input box testi	ng d) Output bo	ox testing	191	
architecture change in rec a) Inheritance, Er c) Encapsulation, 216. Which of th applications? a. Clearly define	Polymorphism e following steps do <mark>you</mark>	_ feature prov ire massive cha b) Inherit d) Polym think develope	inges in the system. cance, Polymorphism orphism, Abstraction ers should take to create	efficient compact
	nanage risk thro <mark>ughout t</mark> h	-	·	
	vare testing until after sy			
a) a, c	b) a, b	c) a., b, d	d) a, b, c	
217. Which of th	e following elements cor	nbine 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 system b. To provide a p c.To support small	e following are aims of University of using OO concepts rocess for software developmental insight into implementations.	elopment enalysis and de	=	
a) a, c	b) a, b c) a, b,	d	d) a, c, d	
219. Towards en components.	d of the design phase,	sh	ould be allocated to sour	ce code
a) Use cases	b) Relationships	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
a) 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 complete from start to finish
b. Use case provide developers with clas <mark>ses and o</mark> perations
c. Use cases outline functionality of the system
d. Use case models can be used to tes <mark>t the sys</mark> tem
a) a, b, c b) a, b, c, d c) a, c, d d) a, c
224. Class diagram represents
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 mod	el			
a) Delivers a system i	n a series of versi	ons		
b) Builds a bridge bet	ween user and de	veloper		
c) Uses experimenta	l software to bett	er understar	ıd user requirement	:s
d) Works with encaps	sulation and inher	itance to sim	plify flow of control	
_	= -		engineers re-engine of a computing syste	eering is a type of software ms include
A. software componer	nts			
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	
231. Project milestonea) DFD and SRSc) Feasibility study and	detailed design	m A	wo parts b) Interface design a d) Requirements and	
232. Which is not par a) White box test		ack box testir	o langu	testing d) Gorilla testing
233. Which is not par	t of phases of so <mark>ft</mark> n b) low level <mark>des</mark>	ware develo	pment a)	a) dorma testing
234. Which software o	developme <mark>nt mod</mark>	el incorporat	<mark>es ris</mark> k management	:?
a) Water fall model	b) Spiral m	odel	c) Incremental mode	d) Object model
235. Largest time is sp	ent on which of tl	ne software o	levelopment phase?	
a) Testing	b) Enhancement	;	c) Bug fixing	d) Analysis and design
 236. Simple SDLC cont a) Requirements, and b) Analysis, design, in c) Analysis, design, in d) Requirements, and 	alysis, design, imposition, tendementation, te	sting, deploy sting, mainte	ment enance	
237. DFD is not a				
a) Logical model of sys	tem		o) Good guide to a s	ystem
c) Representation of ph	nysical stream	(d) All of the above	

238. Productivity metrics

a) Focuses on the output of the development process.

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b) Focuses on the characteristics	of the software	<u>)</u> .	
c) Provide indirect measure.		i	d) All.
239. Which is not a type of mainte	nance?		
a) Adaptive b) Cor	rrective	c) Perfective	d) Obsolescence
240. Adaptive Maintenance is			
a) To improve the system in some	way by chang	ing its basic functionali	ty
b) The maintenance due to chang	ges in the envi	ronment	
c) The correction of undiscovered	l system errors		
d) None of the above			
241. Which of the following activit requirement Specification?	ies involves ch	oosing a system structu	ire capable of satisfying the
a) Requirements Analysis	b) Design	c) Coding	d) Testing
b) Fault detection d) Fault 243. The Software Development Lia) Feasibility Study to Installation c) Requirements Phase to Maintena 244. Identify the true statements a Processes usually divide software (b) Processes provide guidelines for	fe Cycle covers ance about using a p	b) Requirements Ph d) Project Initiation roces <mark>s for software dev</mark> nto phases	to Software Retirement velopment.
Processes are used o 1) a and c 2) a and b	3)	a, b and d	4) a, c and d
	-,	a, a a	., .,
245. Process visibility is enhanced by	•		
a) Defining clear cut phases	•	Producing documents r	elated to each phase
c) Conducting reviews & checks	a)	All of the above	
246. Which of the following activit	ies is not consi	dered as "Umbrella Act	ivity" a)
S/W Quality assurance		b) Software Design	
c) S/W configuration management	d)	S/W Project Monitoring	g & Control
247. What is the primary purpose	of the first stag	ge of software analysis a	and design? a)
Determining system deployment	b) Wr	iting code	
c) Capturing requirements	d)	Building GUIs	
248. SDLC starts with	_ stage		

b) Deployment

c) Testing

a) User Requirement and Analysis

d) Design



whereas the	akes an approaci	h to the system, ignoring	its inner workings
	approach, making de	ecisions on how the mod	el will be implemented in
a) White box & Black box	h) Black hov &	. White hov	
c) Top-Down & Bottom-U			
250. The goal of	•	·	and its shortcomings
	ortunities for improvem	= -	rana its shorteonnings
a) Feasibility study	•		
b) c) Systems definition	• •	•	
251. The last step in Systo	em Development Life Cy	cle is	
a) Analysis	b) Implementation	c) Testing	d) Maintenance
252. The ph	ase of the systems life cy	rcle contains periodic eva	luations and updates of
the system			A.
preliminary a) Investigation c) Systems implementatio	2 10 1 10 (1 100	Mantri	
a) Investigation	b) Systen	ns analysis	
c) Systems implementatio	n d) System	ns maintenance	
		A	
253. During thep		/) - A	
a) Analysis	b) Design	c) Testing	d) Implementation
254. The type of software	e maintenan <mark>ce which</mark> is c	lone to add new features	s to the product is called
a) Corrective Maintenand	Victoria de la Companya de la Compan		to the product is called
c) Regressive Maintenance	No. of the second secon	ct <mark>ive Mai</mark> ntenance	
, 0			
255. Because of the casca process is known as	ade from one phase to ar	nother, the model of soft	ware development
a) Evolutionary model	b) Formal mod	el	
c) Waterfall model	d) None of 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	build a model that can b	be modified before the a	ctual system is installed
a) Maintenance above	b) Prototyping	c) Implementation	d) None of the



259. A requirement m	ay be a description	n of		
a) Functionality to be p	rovided ł	o) Constraint o	on the software	
c) External interface	C	d) All of the al	ove	
260. DFD gives idea al	oout flow of	& flowcha	art gives idea of th	ne flow of a)
Processes, decisi	ons b) Co	ontrol, data	c) Logic, contr	ol d) Data, control
261. Data Models do i	not consider			
a) Attributes of the data	a object	b) Relati	onships between	data objects
c) Operations that act o	n the data	d) Any o	f the above	
262. Notations used to details of a softwar Structure Charts	•			structure, and processing agrams III.
a) I and II Only	b) III Only	c)	I, II and III	d) None of the above
263. Formal specificati	on language consis	sts of		Α.
a) Syntax	b) Semantics	c) Set of	relations	d) All of the above
264. The software arch	nitecture is best rer	oresented by		
a) Context Diagram	b) Flow Char	/ / /	Structure Chart	d) Data Flow Diagram
205 11-1				
265. Using	_ a programmer <mark>ca</mark>			
a) Pseudo code	b) Software	c) Conte	ext diagram	d) Data flow diagram
266 Which of the follo	uning is not true ak	acut a flaur ch	out? a)	
266. Which of the follo	- 1		artr a)	
b) It is a tool for detaile	W /			
c) Data interchange is	=			
d) It clearly separates	•	of the software	е	
267involves	modeling a system	n as a set of in	teracting function	nal units. a)
Object oriented decom	= -	rocedural dec	_	
c) Functional decompo		d) None of the	•	
268. Typographical er a) Logic errors			programming lang un time errors	guage is referred to as d) A bug
269. Testing of softwa	re falls after	stage.		
a) Designing	b) Implementation	n c)	Deployment	d) Coding
270. Changes made to	the software to ac	commodate c	hanges to its envi	ronment is called a)
Perfective maintenanc	e	b) Regressi	ve maintenance	
c) Adaptive maintenan	ce (d) Corrective r	naintenance	



2/1. Major changes n				
a) Perfective mainten			egressive maintenan	ce
c) Adaptive maintenar	ice	d) Correc	ctive maintenance	
272. Function Point C	ount is dependent	on		
a) Platform & Technol	· ·	b) Team	Size	
c) H/W & Software Re	· .	•	res & Functionalities	
c) II) W & Joitware Ne	sources	u) i catul	res & runctionanties	
	minology a project v developed is catego		el of staff experience	& part familiarity with
a) Organic	b) Semidet		c) Embedded	d) Application
274. The value of COO	COMO cost driver a	ttribute for hig	her than average Pro	grammer Ability will
a) Greater than 1	b) Equal to	1	c) Less than 1	d) None of
these 275 And _	are graphical	notations whicl	h are used to illustrat	e the project schedule.
a) Bar chart and DFD	170	/b) E	RD and Bar chart	
c) Class diagram and a	ctivity networks	d) Bar ch	ar and activity netw	orks
276. Risk Assessment	Table is based on o	categorization l	by	
a) Risk Components		oact c) Both a	•	d) None of the above
, , , , , ,				
278. Risks arising out	of frequent change	e requests are h	pest mitigated by a)	
User characterization			best mitigated by a)	
c) Multisource estimat		escheduling key	v nersonnel	
·		/ /	, personner	
279. Automated SCM				CCI
a) Inconsistencies of S		-	Concurrent access to	SCI
c) Instability of develo	pment environmen	it d) i	All of these options	
280 As nor SELCMM	organizations which	h do not have :	any KDAs nrasant & st	table are considered at
a) Level 1	b) Level 2	c) Level 3	·	
a) Level 1	b) Level 2	c, Level s	d) Leve	21 T
281. In which of the f	ollowing phases of	use-case drive	n nrocess do vou thin	ik iise cases have a
role?	ollowing phases of	use-case unive	ii process do you tilli	R use cases have a
a. requirement capt	ure			
b. analysis	ui c			
c. design				
d. implementation				
-				
e. test	h) a h a d	اء ما (ہ	طامه الم	
a) a, b, c	b) a, b, c, d	c) b, d	d) a, b	, c, e
282. Sequence diagra	ım renresents			
a) Organization of obje		b) Messages o	n time scale	
-,ga	-	.,		

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c) Conceptual design	d) Set o	of actions	
283. Analysis takes place	ce from pe	rspective and design tak	es place from
a) User, user	b) User, developer	c) Developer, user	d) Developer, developer
	_ phase of SDLC aims at ovelopment c		ct is as per requirements. d) Deployment
c) Delivers a system in	on ween user and developer n a series of versions	to simplify flow of contr	ol
a) True	porates risk managemer b) False ent is not a part of ve <mark>rsi</mark> e	Mantri	
- V7	b) False	on management	
- "	ns are part of desi <mark>gn phas</mark> b) False	se of SDLC	
289. Which is an iteration		h the <mark>require</mark> ments are t	ranslated to "blueprint" for
a) Testing	b) Requir <mark>ement an</mark> alysis	c) Design	d) Maintenance
290. What manifests in algorithm is	the patterns of choices	made among alternative	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 a	and strictly and strategic given requirements for quarter	•	ase dence that the product or
292. Which of the follo process?	wing types of test plans	is most likely to arise fro	m requirement specification
a) System integration te c) Sub-system integrat	- .	b) Acceptance test d) Module test plan	<u>-</u>

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 requirement	nt
294. Which of the follo	owing is not part (of spiral model?	
a) Planning		b) Customer communi	ication
c) Project documentati	on	d) Engineering	
· ·	_	-	rt of white-box testing a)
Euivalence partitioning	•	ry value analysis	
c) Basis and testing	d) De	ebugging	
296. Following are the an order.	different steps th	nat is to be followed in (design methodology arrange them in
a) First level factoring	b) fa	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	otroi A
297. COCOMO is an ef	fort estimation m	odel in terms of	
a) Cost	b) Person- Mont	t hs c) Both	d) None of the above
298. Pick the odd one	out		
a) Component assembl	y model	b) Spiral Model	
c) Incremental Model		d) Iterative Mod	el
= •		- /	ents of a software system does not
include which of th	V 7-		
a) User Interfaces		Software Interfaces	
b) c) Hardware Interfa	aces d) Module	Interfaces	
200 External Entitios i	n a Contout Diagr	ram may ba	
300. External Entities i A) People	_	oftware Systems	C) Hardware D) Databases
a) Only A & D	•	c) Only A, B & D	d) A,B, C & D
a) Only A & D	b) Only B & C	c) Only A, B & D	u) A,B, C & D
301. Example of a Sem	nantic Data mode	Lis	
a) Data flow diagram b			ationship Diagram d) All of the above
,	,	-,,	, , , , , , , , , , , , , , , , , , ,
302. A system develop	ed to give end us	ers a concrete impressi	on of the system capabilities is called
a) Semantics	b) Model	c) Prototype	d) Abstraction
•	•		,
303. Planning the solut	tion to a program	iming problem using a s	structured technique is called
a) Coding	b) Compiling	c) Modeling	d) Design
- -		-	
304. Conception & pla	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	b) Data Abstra	ction	the actual mechanis	im a)
c) Control Abstraction	d) None	of the above		
306. The number & co a) Modularity	mplexity of interconi b) Cohesion		o modules is an indi d) Abstraction	
307. The method of dea) Factoring	_	chart from the DFD is		the above
308. Which of the followard forms there should be only only to the should be at	one module at the to	р	•	
c) The sequence or or		presented		
d) All of the above309. A programmer me	hrivan	n Man	tri	
309. A programmer m	ust follow the rules f	or coding a particular	programming langu	Jage. These
a) Pseudo code	b) Iteration	c) Syntax	d) Documenta	tion
310 is the praintenance 311. Changes made to a) Perfective maintenance c) Adaptive maintenance	b) Correcting the software to extende b)	c) Debugging	d) Testing nal functionality is o	alled
312. COCOMO is categ	orizes as a	estimation tech	nique	
a) Heuristic	b) Empirical	c) Analytical	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 devel b) Continuous risk most	at Coding & Unit test sion increases effort edule gives extreme s Management method eloping a risk mitigat onitoring throughout	ting in proportion to fourt saving in effort dology which focusses ion plan the project	s on a)	. d)
c) Actually managing All of the above	the risks whell they l	become a reality by c	ontingency planning	g d)



a) Its technical merit c) Side effects	•	t & schedule impact of these options	S	
316. Software quality a) Quality assurance	= -		Quality control	d) All of the above
317. Which of the foll data inputted b. GUI component c. Another system	owing are possible	actors? a.		
d. A printer a) A, B, C	b) A, B, C, D	c) A B D	d) A, C	
318. UML can be used a) True	d as a way to repres b) False	ent only OO softwar	re systems	
319. Use cases can be a) True	e included in any typ b) False	e of collaboration d	iagrams.	
320. Which of the foll	owing is reason of p	project failure?		
a) Finite resources				
b) Inaccurate estimate				
c) Others are comped) None of the abov		neaper and faster		
a, reme or the abov				
321	_ is method <mark>for estir</mark>	nating software		
a) COCOMO	·	ction point analysis		
c) Use case estimation	d) All (of the above		
322. Pick up odd one	out of the following	Ţ		
a) Component assemb	_	b) Spiral model		
c) Incremental model		d) Iterative model		
323. Parts of design p	rinciple are			
a) Correctness, robu	•	exibility, understand	lable	
b) Correctness, robu	stness, efficiency, f	lexibility, reusabilit	y	
c) Flexibility, correct	ness, robustness, ef	ficiency, standard		
d) Flexibility, correct	ness, robustness, ef	ficiency, security		
324. Which of the follo	owing can be a reaso	on for project failure	:?	
a) Finite resources			rate estimates of	cost & time
c) Others competing to of the above	o do the job cheape	er & faster.	d) No	one



325. An approved feat	sibility study is a deliv	erable out of	
a) Systems design	b)	Preliminary investigation	
c) Systems developmen	nt d)	Systems analysis	
22C Charlitata anidal			ata aa)
		bles are all tools used in the	step a)
Preliminary investigat		ems analysis Systems implementation	
c) Systems developme	u).	systems implementation	
327. The present syste	em is studied in depth	during the pha	ase of the systems life cycle.
a) Preliminary investig	gation b) Systems an	alysis	
b) Systems design	d) :	Systems development	
328. The SDLC Model technical risks is	most suitable for sma	II projects with unclear requ	uirements is but not many
a) Spiral Model	b) Incremental Mod	el c) Waterfall Model	d) Prototyping Model
A. Documentation a) A, B, C, D 330. Automated CASE	B. Analysis C. Val b) D, B, A, C tools like PSL/PSA do	c) D, C, A, B not help in	d) B, A, D C
a) Requirements Docuc) Requirements Analy		b) Requirements Validatid) Requirements Elicitat	
c) Nequirements Analy	315	u) Requirements Elicitat	IOII
331. The requirement	engineering process	has the fo <mark>llowing s</mark> tages, ex	cept a)
Feasibility study	b) Requ	uirement <mark>analysi</mark> s	
c) Implementation	d) Requi	remen <mark>t definiti</mark> on	
332. Concept of Abstr	action is used in		
a) Requirements phase		n Phase c) Testing Pha	ase d) All of the above
, , ,	, 0	, 0	,
333. The number of su	ubordinate modules c	ontrolled by a module is cal	led its
a) Control range	b) Fan out	c) Fan in	d) Width
334 If two modules n	ass a data structure a	cross their interface they ex	hihit
a) Stamp Coupling	b) Data Coupling	c) Content Coupling	d) Control Coupling
a, cramp coapg	a, add codpg	o, comom coapg	a, com or coapg
335. The strength of r to evaluate modul	· · · · · · · · · · · · · · · · · · ·	which of the following elemo	ents of a module is examined
a) Function declaration	ns, function definitions	s& calls b) Varia	able declarations
c) Data definitions		d) All o	f the above
22C The amount to be	.l	one and the second of the second	المالمة والمسالمة
a) Context Diagram	b) Structure Chart	epresent the system archite c) Architectural Pla	
a, content biagiani	~, ~ actail Condition	o _j , a contectulul I lu	aj Event lubic



337. The value of COO	COMO cost dri	ver attribute for	· lower than averag	e Reliability requirement w	ʻill
a) Greater than 1	b) Equ	al to 1	c) Less than 1	d) None of these	
338. Example of Softv	vare Configura	ntion Items (SCI)	is		
a) SRS	b) Code	c) Us	er manual c	l) All of the above	
339. Top of Form Wh		wing factors of	a Software Product	may not contribute much	to
a) Understand ability	k) Flexibility	c) Security	d) Testability	
340. Your Answer: Th a) Feasibility Study to c) Requirements Phas	Installation	•	b) Requirements P	Phase to Testing ion to Software Retiremen	t
341. Any activity design referred to as				or free, and up-to-date, is d) Coding	
342. During the		of the <mark>systems</mark> I	ife cycle, the new h	ardware and software are	
-	evelopment	c) Impleme	entation	l) Maintenance	
343. E-R diagrams are a) Database design c) Architectural design		b) Data Dictiona d) Function			
344. The flow of data	within a syste	m is described b	ру а		
a) Data flow diagram	b) Top-dow	n analysis c) Sy	vstem flowchart d)	Decision table	
345. Formal specifica	tion technique	s are based on			
a) Set theory	b) Logic	c) Sequenc	e d) All c	of the above	
346. Using the name example of	of a sequence	of instructions i	n place of the sequ	ence of instructions is an	
a) Procedural Abstrac	tion	b) Data Ab			
c) Control Abstraction		d) None of	the above		
347. Providing a logic representation is	al reference to	the data object	t without concern f	or the underlying	
a) Procedural Abstract		b) Data Ab			
c) Control Abstraction		d) None of	the above		

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348. A module	whose all elem-	ents exhibit re	lationship w	hich involves both	data and control flow is
said to be _	C	ohesive			
a) Sequentially	b) Communicat	ional	c) Temporally	d) Procedurally
349. The affere	ent branch of the	e DFD ends at	the		
a) Most Abstrac	t Input		b) Most Al	stract Output	
c) Middle of the	central transfo	rm	d) All of th	e above	
350. I. Object-c	oriented softwa	e developmer	nt creates be	etter programs but	is less efficient to use II.
Objectoriented	l software devel	opment is mo	re efficient t	han traditional me	thods.
•	ocess that organ operations nece		-	s that contain both	n data and the
a) I and II are co	•		I are correct		
c) I and III are c		-			
351. The if-the	n-else construct	is an example	of the		
a) Sequencing	b) Selec	ction	c) Iteration	n d) All	of the above
	Shr	Iram		antri	
352. Proper propagation		proper usage	of proper u	se of indentation, I	plank spaces, blank lines,
a) Efficiency of t	the program		b) Size of t	he program	
c) Maintainabili	ity of the progra	am /	d) Reliabili	t <mark>y of the</mark> program	
353. Static verif	ication & valida	tion is <mark>applied</mark>	to		
a) SRS	b) Design	c) C	ode	d) All of the abo	ve
254 Ctational	ia a ia calcas				
354. Static test	_	stural Apalysis	c) Da	ata Flow Analysis	d) All of the above
a) Code Analysis	s b) Struc	turai Anaiysis	C) Da	ta Flow Analysis	d) All of the above
356. Statistical	Testing is used f	or			
a) For statistical	software's only	b) (Only uncover	ing defects	
c) Reliability est	timation	d) E	fficiency esti	mation	
357. Which of	the following is	NOT true abou	ıt software t	esting	
	bottom up app			_	nned after the coding
phase					_
b) Complete t defects	esting is not pos	ssible		d) Testing only e	stablishes presence of
358. Which of	the following is	NOT true with	regard to Te	esting & Debugging	J
a) Testing inclu	des debugging			b) Debugging incl	udes retesting
c) Testing only 6	establishes pres	ence of defect	S	d) Debugging rep	pairs the program defects
359. Purely bla	ck box testing w	ould be used	at which of t	the following levels	5?

b) Module testing

a) Unit testing

32



c) Integration Testing	g d)	Acceptance Tes	sting		
	ng is more useful in loc b) Performance Er	_	rface Errors	d) All of ti	nese options
361. Test Data includea) Set of inputsb) c) Information of	des f function under test	·	f expected out	puts	
362. Testing strateg	ies can be				
a) Top – down testing	g, Bottom – up testing	b) Thre	ead testing, Str	ess testing	
c) Back – to – back to	esting	d) All (of above		
363. A stub is a dum	nmy version of the	module	of the module	under testi	ng
a) Superordinate			c) Coordinate		All of the above
364. Testing done was a) Data testing	rith real data is called _ b) Unified tes		: c) Alpha testing	d) B	eta testing
365. The following a	are the testing strategie	es except			
a) Top-down testing	b) Thread t <mark>es</mark>	ting c) Stre	ess testing	d) Verifica	ition testing
		7 . A.	. / . /		
a) COCOMO	an Empirical Software b) FPA	estimation techi c) Delphi		alstoad's So	oftware Science
a) COCOIVIO	BITTA	с) Беірііі	u) II	aisteau 3 Sc	ntware science
367. The Lines of Co	de (LOC) size <mark>do not</mark> in	clude			
a) Compiler Directive	es b) Decla	arations (c) Comments	d) A	All of the above
269 Depostable lev	al as nor CNANA madal i	•			
a) Level 1	el as per CMM model i b) Level 2	c) Level 3	d) L	evel 4	
•	•	•	•		
369. The collection of called	of computer programs	, procedures, rul	es and associat	ed docume	nt and data is
a) Software	b) Hardware	c) Both	d) None		
370. A context diagra	am contain				
a) Only one process		than one proce	SS		
c) At least one proces	•	•			
	pe projects b) Enhance		ect c) Both d)) None	
3/2. Hillee Hajor la	ctor of software engine	cernig 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

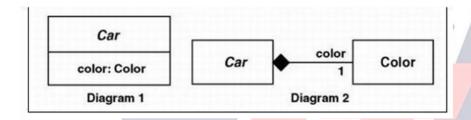
- 374. Match the level testing can work on
- 1) Acceptance Testing
- 2) System Testing
- 3) Integration Testing 4) Unit Testing

- 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 constrai development, is ar		tem or the use of a specific l	anguage during
a) Functional requirem	•	b) Non-functional requ	irements
c) Requirements definit		d) None of the above	
381. What is a Require			
a) What software provi	ides. b) Req ı	uirements in SRS	
c) What customer wan	ts? d) All c	of the above	
382. Which of the follo	owing is a tool in de	sign phase?	
a) Abstraction	b) Refinement	c) Information hiding	d) All the above
383. The data flow dia	ıgram		
	_	jects depicts relationships be	etween data ohiects
b) Depicts functions t			A data objects
			<i>:</i> A
d) d) Both b and c		y the system	
a) a) both bana c			
384. Content testing u	incovers		
- /		one of Characterial organ	d) All of the above
a) Syntactic errors	b) Semantic	errors c) Structural error	d) All of the above
205 1411 1 511			
		essing software processes?	
a) SEI R b) SP	ICE C) ISO 9001 d) Both	n b and c
20C Mathada at Duaia	at NA a situation and		
386. Methods of Proje	W / -	athad a) Dasies Canatusis	ata d\ Dath a Q h
a) Time sheet	b) Earned value me	ethod c) Design Constrain	nts d) Both a & b
387. Risk projection at	tempts to rate each	risk in two ways	
a) Likelihood and cost		b) Likelihood and	impact
c) Likelihood and conse	equences	d) Likelihood and e	exposure
388 Effective risk mar	nagement nlan need	ls to address which of these i	ssues?
a) Risk avoidance	b) Risk monitoring		
a) Nisk avoluance	b) Nisk monitoring	c) Contingency pla	ining dy An of the above
389. To quantify a risk	we need to do the	following	
a) Determine the possi	bility of risk happen	ing	b) Both a and b.
c) Determine consequ	ences of the probler	n associated with that risk.	d) None of the above.
390. Deliverable for a	software Project is		
a) Source Code	22.6.14.27.10,000.13	h) Design Docume	nts

d) All of the above

c) Requirement Documents and Test Plans

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			Total Principle	
391. Sc	oping is done d	uring,		
a) Propo	sal Stage	b) Requiremen	ts gathering stage	
c) Desigr	n Stage	d) Coding Stage		
392. A s	software engine	eer is measuring the quality	of a software system. He is co	oncerned with the
ʻreli	ability' and the	"validity' of his measureme	ents. Which of the following is	true?
	•		easurement represents the act fith the act from the action of the quality measurements	tual quality of the
=	-	-	ality measurements and valid	lity refers to the
•	•		the actual quality of the sys	=
c) Reli	ability refers to	-	measurements and validity r	
			lity measurements and validi	tv refers to the
•	•	•	ent with established norms.	
	=	are the overall factors that		
a) Run-ti	ime behaviour	b) System design	c) User experience	d) All of the above
394. Te	sting is a			
	The state of the s		finding an error b) Process of	
c) Proces	ss of testing sof	tware	d) All of the	ne above
396. Blad	ck box testing c	hecks the follow <mark>ing erro</mark> rs		
a) Incorr	ect function	b) Interface errors		
c) Both a	a & b	d) Non <mark>e of the</mark> above		
207 4	and a for all a			
		- W /	nality required for a project i	
a) wbs t	Estimation	b) UCP Estimation c) F	P Estimation estimation	d) COCOMO
	neduling begins			
•	dentification	b) Process deco	•	
c) FP Est	imation	d) COCOM0 est	imation	
399. Ag	gregation repre	esents		
a) Is a re	lationship	b) Part of relationship	c) Composed of relationsh	ip d) None of above
400. M	odules X and Y	operate on the same input	and output data. The cohesic	on is said to be
a)	Sequential	b) Communicational	c) Procedural	d) Logical

400. Modules X and Y operate on the same input and output data. The cohesion is said to a) Sequential b) Communicational c) Procedural d) 401. Estimates are made in a project primarily on a) Size b) Cost c) Both a and b. d) None of the above 402. SPMP document is made at the end of a) Project planning b) Project monitoring c) Project control d) None of the above

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40	While gathe do it	ering the re	quirement	ts on OO v	vay (using F	RUP UML)	, the very fi	rst thing we should
a)	Start gathering	g functiona	l requirem	ents				
-	List down all t	_			as Actors)			
c)	Start gathering	g non-funct	ional requ	irements				
d)	Create Test pl	an						
40	4. What is the	solution to	"Yes-But	Syndrome	" in require	ements ga	thering?	
a) I	mprove techn	ical skills		b) Seek cust	omer fee	dback early	
c) L	earn a tool for	requireme	ents	d) None of t	he above		
40	5. Which of th	e following	statemen	its is true i	egarding so	cenarios?		
	Scenarios are i	_					ralizations (of many use cases.
	use case is ar				l) None of t	_		,
							A	
40	6. Which of th	e following	is true ab	out a Build	d?///	11011	NY A	
a)	A Build repre	sents an op	erational	version of	a system c	or a part o	f the system	n that demonstrates
•	a subset of th							
b)	A Build const points.	itutes an in	tegral par	t of t <mark>he ite</mark>	rative deve	elopment	<mark>lifecy</mark> cle an	d provides review
ر)	•	nlaced und	er configu	ration con	trol in case	there is a	need to ro	II back to an earlier
۷,			<u> </u>					rise some form of
	compromise		- /	7		7 /		
d)	All of the abo							
,		1						
40	7. What is the	Cost of qua	ality, <mark>Failu</mark>	re cost, pr	evention co	ost, and a	opraisal cos	t?
	120, 35, 37, 50	-		-	c) 95	•	-	d) 120, 13, 45, 40
,	, , ,		, ,	, ,	,			, , , ,
40	8. Prevention	cost iv) Effo	orts spent	on review	s and testir	ng		
a) a	n-iv b-iii c-ii d-I		b) a-iv b-	ii C-iii d-I	(c) a-ii b-iv	c-i d-iii	
То	p of Form							
409). Software En	_		· · · · · · · · · · · · · · · · · · ·				
a) F	Process	b) M	ethods	С	Tools	d) Al	ll of the abo	ove
410	O. Static verific	ation of co	de is not li	kely to rev	veal			
a) L	ogic errors	b) Syntax	errors	c) Perf	ormance ei	rrors	d) Codin	g standard violations
41	1. Which facto	or among th	e followir	ng has leas	t effect on	the testak	oility of a so	ftware?
a) [Decomposabili	ty	b) Efficie	ency	c) Und	erstand a	bility	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 test	ir
413. In unit testing which	n of the follow	ing is the stro	ngest testi	ng strategy?		
a) Statement coverage	b) Branch Co	overage	c) Conditic	n Coverage	d) Path coverag	е
415. Selection of test pat	hs according t	o definition&	usage of o	lifferent varial	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	team projects	large team pr	ojects are			
a) More sensitive to progr	-		-		rammer ability	
c) Not sensitive to progra	mmer ability		d) None of	these		
417. Which version of CC various subsystems b systems?		•		•		
a) Basic COCOMO c) Complete COCOMO		ntermediate Cone of the ab		itri 🛕		
418 Structural approach a) Glass box testing		ox testing				
c) Input box testing		box testing T	op of Form	/ /		
1						
419. Ability of a software time	e to perfor <mark>m st</mark>	ated function	under sta	ted condition	for a stated period o	f
a) Efficiency b) Robustness	c) Rel	iability	d) Corr	ectness	
420. Among the followin	g types which	is the most u	ndesirable	form of coupl	ing	
a) Stamp Coupling b)	Common Cou	ıpling	c) Content	Coupling	d) Control Coupling	3
421. Which of the follow	ing would NO	Γappear as a	symbol on	a flowchart?		
a) Data type b) Decision	c) Inp	ut/output	d) Proc	essing	
422. All of the following	are control str	uctures used	in structur	ed programmi	ing, EXCEPT	
a) Iteration b) Selection	c) Seq	uence	d) Go t	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	ne above	
424. What are the compo					ecture? a)	

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

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	nagement) –Server (App on Processing) – Server-		ement)
425. Iterative metho	od contains the feature	of	
a) Water fall method	b) Prototype method	c) Both	d) None
426. Which of follow	ving order is true in soft	ware engineering lif	e cycle
a) SRS, Design, Codin	g, Testing	b) Design, Coding	g, Testing, SRS
c) SRS, Design, Testin	g, Coding	d) Coding, Testing	g SRS, Design
427. Which is the mo	ost commonly used deb	ougging approach?	
a) Brute force	b) Back tracking	c) Cause elimina	tion d) None of the above
•	characteristics of a soft	•	a)
-	lity, reliability, robustne		
	dependability, efficience	798	
c) Supportability, m	naintainability, visibility,	, rapidity	1171
d) None of the above	/e	O ITA CONT	
=		· / / /	<mark>er errors t</mark> hat were made Because
	gh thep		
	is worth the <mark>effo</mark>	rt. (Clue: both the b	lanks to be filled by The
same word)	\		
a) Coding b) I	Design c) Testing	g d) None of	the above
430. Who should per	rform the validation tes	st?	
a) Software develop		b) Software	user
	elopers and users	•	
431 Find the activity	, which is not part of ve	ersion management	
		_	ndard d) None of the above
a, commonea ename.	s, etc. age managen	or and an arrange of an	
432. Testing			
a) Installs guilt	b) Is punishment	c) Is to find	errors d) None of the above
433. Which is more i	mportant?		
a) Product	b) Process	c) Quality	d) None of the above
434. The sooner you	begin, th	ne longer it will take	to get done.
a) Coding		c) Design	
125 Varification is to	choole		

435. Verification is to check

a) Whether we are building the right product

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c) Neither of the d) None of the a		gnt			
a) Requirement	correct sequence of procests, Analysis, Test case designs, Test of the control of	gn, Design case design			
d) None of the	ts, Test case design, Analys above	sis, Design			
	quality assurance activity	-	-	_	
a) Coding	b) Formal technical revie	ews	c) Design	d) None o	of the above
438. In what ma	nner, coding and testing a	re done			
a) Top-down	b) Bottom-up	c) Cross-	sectional	d) Adhoc	
Problem descrip c) Feasible altern	~ " • " • " • • " • • " • • • • • • • •	oject name I) Data-flow d	liagrams	ocument	a)
a) An analysis inv	estigation	b) /	A <mark>manage</mark> r's for	mal request	
c) Scheduled syst	em review	d) /	All of the above		
Inadequate user c) Size of the cor 442. "The proba	ne following is not a factor involvement b) Failure of mpany d) Conbility of failure free operations for	f systems intention of	<mark>egrat</mark> ion a project that sl	hould have be	en cancelled
a) Quality	b) Reliability	c) Operal	oility d) None of the	above
a) Flow, Source, S	ons used in building Data F Store, Process Source/Destination, Store	b) I	are Flow, Process, S Source, Process		Store
444. Which of tha) Application gec) Screen general		b) Third	cation Prototypi generation lang t generators	_	
445 All of the fol a) Structured Eng	llowing tools are used for parties. Ilish b) Decision ta	-	ription except c) Pseudo co	de Dat	a 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) X1-Y2 X2-Y3 X3-Y4 X4-Y1

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

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

453. Function point is

- a) A pointer to a function
- b) A point where the function is written in a code
- c) A method of estimating the amount of functionality required for a program d) A function named "point"

454. A system version

a) Is an instance of a system deployed at the client side

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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

The currently known containment effectiveness of faults introduced during each
 Constructive phase of software development for a particular software product is Ratio of
 (Actual project duration) to (estimated project duration)
 (Number of pre-release Defects) to (number of pre-release Defects) to (number of pre-release Defects + number of post release Defects)

 (Number of phase i errors) to (number of phase i errors + number of phase i defects) (Number of failure) to (Execution time)

457 SRS is maintain	ed in configuratio <mark>n envi</mark>	ronment as			
a) Software design b	aseline	b) Soft <mark>ware dev</mark> elopmer	nt baseline		
c) Software artefact's	5	d) Sof <mark>tware pr</mark> oduct bas	eline		
458 Following is the S	SCM audit to <mark>ol</mark>				
a) Requirement metri	cs b) PERT charts	c) Source Code	d) Design Document		
459 Delphi method o	f cost estimation uses				
a) Functional point an	alysis	b) SLOC expressed	in KDSI		
c) PERT model using of	effort calculations	d) Decomposition method of cost estimation			
460 Validate that the	functions meet started	requirements or not is cal	led as		
a) Unit testing	b) System testing	c) Integration Testing	d) Acceptance Testing		
461 What do you me	an by incremental testir	ng?			
a) White box testing	b) Black box testing	c) Top-down testing	d) Independent testing		
462 Verification shou	ld be performed for				
a) Requirements	b) Design	c) Code construction	d) All of the above		
463 Validation is mos software/program		he c	of the final		
a) Correctness	b) Consistency	c) Completeness	d) Quality		



464. Quality control	procedures are		
a) Preventive costs	b) Appraisal costs	c) Failure costs	d) None of the above
465. Who should be i	nvolved in determined	risk management?	
a) Customer	b) Management	c) Development tea	m d) All of the above
466. Which of the fo	ollowing is an attribute licy	of Quality? a) Proc	ess b) Product c)
	sign SDLC phase is imm ning b) Initiation		
468. Resource plans tasks carried out i	ning, audit planning, est	timation, scheduling a	re the some of the
a) Initiation phase	b) System design pha	ase c) Definition	phase d) Evaluation phase
469 System reviews a a) Quality control	nd software testing are		d) None of the above
a) Quality control	b) Quality assuran	ice of Quanty addits	d) None of the above
470	is done with <mark>out</mark>	executing the code.	
a) Registration	b) Unit	c) System	d) Static
471. Which of the fol	lowing is not a white bo	ox testing technique?	
a) Statement coverage	ge /	b <mark>) Equiv</mark> alence	- A
c) Decision/condition	coverage	d) Multiple co	ndition coverage
472. Which of the fol	lowing task is not perfo	rmed by v & v manage	ement?
a) Create the software			e management review of v & v
c) Support manageme	nt and technical review	d) Conduct in-	process reviews
473. A standard must	be		
a) Measurable, Attai	inable and critical	o) Smart, Measurable a	and Time-bound
b) Measurable, Achi	evable and Clear c	d) Approved, Available	and Attainable
474. Which are the fo	our primary standards o	f ISO 9000?	
a) ISO 9000, ISO 9001	l, ISO 9004, ISO 10010	b) ISO 9000,	ISO 9001, ISO 9006, ISO 10011
c) ISO 9000, ISO 900	1, ISO 9004, ISO 10011	d) ISO 9000, I	SO 9001, ISO 9004, ISO 10054
475. Cost of quality ir	ncludes		
a) Preventive, Correcti	ive & control	b) Preventive,	detective & control
c) Preventive, appraisa	al & failure	d) None of the	e above
476. AQL stands for?			



a) Allowable quality level b) Allocated quality level c) Acceptable quality level d) Allowed quality level					
477. Quality a	assurance is a func	tion responsible for		<u>_</u> .	
a) Controlling	quality b)	Managing quality	c) Inspections	d) Removal of defects	
478 a) DFD		perform structured and			
479. Reverse	engineering of dat	a focuses on			
		Internal data structures		d) None of the above	
480. System	Test will not includ	e			
a) Approach	b) Risks	c) Suspension and Re	esumption criteria	d) None of the above	
481. As series	s of definable, repe	atable and measurable	tasks leading to use	ful result is called	
a) Program	b) Proces	ss c) Activity	d) Controller		
a) Determine t	step in project pla the budget e objectives and sc	b) Deterr	nine the project con a team organization		
Includes test b) Exhibits st c) Implemen	cases for all compo trong coupling beto nts all requirement		decision? a)		
484. Which o a) Low couplin	=	racteristics of a strong c High cohesion	leign? c) Modular	d) All of the above	
Reduces tech b) Increases c) Increases	•	_	rcing? a)		
	r process models a	III steps come after finis	hing of a step then t	hat model	
		c) Water fall model	d) None of t	he above	
	•	thod comes under which	=	=	



488. Which of the	e following prov	ides the foundation for team develor	oment?
a) Motivation		b) Organizational developmer	nt
c) Conflict manage	ment	d) Individual development	
489. Which of the	following is a ke	ey to effective software engineering?	
a) Good skills b)	Good design	c) Good Management	d) None of the above
490. Estimation fo	or the satisfactio	on of the identified user needs is know	vn as a)
Feasibility study		b) Requirements evolution	
c) Requirements ca	apture	d) None of the above	
491. Translating t	he algorithm int	o a programming language occurs at	the step of
a) Debugging	b) Coding	c) Testing and Documentation d) Algorithm Development
492. Who designs	and implement	database structures?	
=		gers c) Technical writers	d) Database administrators
493. The		determine <mark>s wheth</mark> er <mark>the project shou</mark>	<mark>lld go</mark> forward or not a)
Feasibility assessr	nent	b) Opportunity identification	on
c) System evaluation	on	d) Program specification	
· -	V.	vare code is done during the	step in the SDLC
a) Maintenance ac) Analysis	iiu Evaluation	b) Design d) Development and Do	cumontation
495. Evolutionary Are iterative in na		ss models	a)
		luct requirements changes	
•	•	waway systems	
d) All of the abov	· ·	, ,	
496. Which of the	following is not	a part of testing?	
	_	ack box testing c) Inner testing	d) Gorilla testing
497. Quality assur	ance		
a) Focuses on re	moval of defects	s before release	
•	ned and system equirements for	atic actions to provide confidence th quality	at a product or service will
c) Is to check the	-		
d) None of the al	-		
498	is the ch	ain of activities that determines the o	duration of the project
a) Object points	b) LOC	c) Lines of code d) Criti	cal path



	Debugging is a consequence of		a)	
	unsuccessful test			
	An error in design			
•	A successful test			
d)	A metric that describes the degree to w	hich a software pro	duct meets its	requirements
500). In object-orientation, polymorphism r	neans		a)
The	ere can be many objects in the design			
b)	Methods can be changed in many ways	;		
c)	Many ways can be instantiated of a class	SS		
d)	Objects can implement the same method	od in many ways		
501	L. The spiral model of software developr	ment	a)	
End	ds with the delivery of the software prod	duct		
b)	Is more chaotic than the incremental m	nodel		
c)	Includes project risks evaluation during		d) A	All
	of the above Shriran	n Mar	1171 A	
502	2. The objective of software project plan	ning is to		a)
Coi	nvince the customer that a project is fe <mark>a</mark>	sible		
b)	Enable a manager to make reasonable	estimates of cost ar	<mark>nd s</mark> chedule	
c)	Make use of historical project data			
d)	Determine the probable profit margin p	orior to bidding on a	project	
503	3. Which of the following is not a section	n in the <mark>standard</mark> fo	r SQA plans re	commended by IEEE?
	a) Documentation b) Reviews an	nd audits c) Test	d) Budget	
504	1. Which of the following tasks is not pa	art of software confi	iguration mana	ngement?
		Statistical quality co	_	_
505	5. How many steps are in the program d	evelopment life cyc	le (PDI C)?	
a) 4	• • • • • • • • • • • • • • • • • • • •	c) 6	d) 10	
-,	2, 2	5,7 5	-,	
506	5 is a measure of ind	ependence of a mo	dule or compo	nent?
	ohesion b) Coupling			
507	7. The purpose of requirement phase is <u></u>			
	o freeze requirements	b) To understar	nd user needs	
c) T	o define the scope of testing	d) All of the abo	ove	
508	3. A modular design has			
	High cohesion, low coupling and high a			
	High cohesion, low coupling and low ab			
-	Low cohesion, low coupling and high at			

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d) High cohesion, high coupling and high abstraction 509. The outcome of the analysis phase is a) Sufficient understanding of the problem to write a design specification. b) Sufficient understanding of the problem to write a formal description of it. c) Sufficient understanding of the problem to suggest a solution (or solutions) d) Sufficient understanding of the problem to write a code specification. 510. Corrective maintenance is related to a) Making the system more functional b) Correcting the fault that could not be found during testing c) Making the system work in new environment d) All of the above 511. Testing is done with the objective of ___ a) Finding new errors in the software b) Correcting errors in the software d) None of the above c) Both 1 and 2 512. If a software had 5 failures in 100 tests during 10 days of testing (Assume 10 tests Per day), what would be a good estimate of the reliability of the software over the Next week? (Assume 5 working days in a week) a) 0.0275 c) 0.0769 d) 0.9500 b) 0.5987 513. A requirements specification is a) A general list of things that the proposed software ought to do b) A precise and mathematical list of things that the proposed software ought to do c) A formal list of things that the proposed software must do d) A list of software and hardware resources needed for completing the proposed system 514. Which of the following is the input to the feasibility study? a) Outline description of the system b) Set of preliminary business requirements c) How the system is intended to support business process d) All of the above 515. Assuming that the tests are representative of the operational situation, then calculate the Reliability of a software system that has had 10 failures in 200 test cases. a) 0.95 b) 0.9 c) 0.1 d) 1 516. A critical task is one with a) Minimum slack time b) Maximum slack time c) No slack time d) None of the above 517. Which of the following is identified as critical for success in software development process? a)

Adopting SDLC configuration management

b) Adopt Continuous risk management

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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	ect 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	nd-users who actually test software before they use it? ting c) Black box testing d) Trial and Error testing
520. What do you mean by non-functional User requirements	requirements? a)
b) Requirements definition	
	em or the use of a specific language during
Development d) None of the above	n Mantri
521. The project plan should be regularly rea) Yes	b) No
c) It cannot be changed, it is to be followed	d) It <mark>is made</mark> only once at the start of project
 522. A program's control flow structure ind a) Correct program b) The sequence in which the program's ind c) High-level language programming d) All of the above 	
•	raphical notation which are used to illustrate the ncies 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	en the system's components
527. Which term defines the process of project comp	liance with policies and procedures? a)
Quality control b) Quality assurat	·
c) Quality audits d) Quality contro	
management	
528. Which of these terms apply to identify quality st	andards 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 specif	fication process
b) Most likely to arise from the System integration	
c) Both 1 and 2	
d) None of the above	
	A
530. Visibility of design means	Tombria
a) Efficient design b) Less	complex design
c) Good quality, consistent document d) Non	e of above
531. Project quality management includes	
a) All activities of the performing organization that	t de <mark>termine</mark> s policies and responsibilities of a
project	
b) Performance quality control	
c) Error detection	
d) None of the above	
V /	
532. Important distinction between the spiral model	and other software process model is a)
Explicit consideration of planning next phase	
b) Explicit consideration of Validation	
c) Explicit consideration of Risk Assessment and Re	duction
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	ct b) Whether we are building the right
c) The methodology of software development	d) The methodology of software testing



53		cle model would you us			cial web site	that requires
		hs of effort from a tear	-			
a) C	Opportunistic	b) Waterfall	c) Inc	remental	d) Spiral	
53	6. Deliverables	are usually milestones	but milesto	nes need not be	e deliverables	.
		•	c) May be t		one of the ab	
•		,		,		
53	7. The executio	n of every possible tes	t case is call	ed as		
a) S	tatic analysis	b) Dynamic testir	ng c) St	ructural testing	d) Ex	haustive testing
	_	n Management is not r				
-	_	anges to the source co				
		lware configuration fo		ition		
		cumentation for an ap	plication			
d)	Maintaining ve	ersions of software				
- 2	0 . M/h*ah af iba	Cally and a superior of the		22		
		following statement is hedule is usually repre	TE 40 40 / 10	of charts showi	ng the work	
		hedule is usually repre				
D)		and staff allocations	senteu as a	set of charts she	owing the act	ivities
c)	•	hedule is usually repre	sented as a	set of charts sho	wing the wo	rk breakdown and
٠,	activities depe					
d)	•	hedule is usually repre	esented as a	set of charts sh	nowing the w	ork Breakdown,
		endencies and staf <mark>f all</mark>				
54	0. Which is true	e about regressio <mark>n test</mark>	ing?			
a)	Regression tes	iting is carried <mark>out if th</mark>	e system <mark>un</mark>	<mark>derlin</mark> e is an upg	graded or	
	corrected Vers					
b)	_	iting checks that there	is no side ef	fect after chang	es c)	
٩/	Both 1 and 2	ovo				
u)	None of the abo	ove				
54	1 Which of the	following is true abou	t integration	n testing?		
		sting aims to find out t	•	J	module inter	rfaces
•	· ·	sting is a kind of testing				
·	system		-		J	0 0
c)	Integration te	sting is a kind of testin	g, which is	carried out afte	r constructin	g or integrating
	the system					
d)	Both 1 & 2					
E 11 7	Which of the	following is not a succe	ad massass	2		
	. Which of the i VM_TIMER	following is not a queu b) WM QUIT		r 1 COMMAND	d) No	ne of these
aj V	A 1A1	b) WWILQON	C) VVII	'I_COMMAND	u) NO	TIG OF GIESE
543	. Which of the f	following is not a resou	ırce?			
	itmap	b) Dialog box Ten		c) Html docume	nt	d) None of these



544. Which of the fo	llowing the resource?			
a) Bitmap	b) Html document	c) Dialog tem	ıplates	d) All of the above.
545. Which function	is used to compare the	regions?		
a) Equal to	b) EqualRgn	c) CompareR	gn	d) CmpRgn
546. Which of the fo	llowing is non queen m	essage?		
a) WM_COMMAND	b) WM_QUIT	c) WM_	TIMER	d) All of the above
547. Which function	n is used to convert whi	te to black and b	lack to whi	te?
a) Convert	b) Invert c)	Insert d)	None of a	bove
548. Which API is us	sed to copy and stretch	the bitmap?		
a) Bible b)	StretchBlt c)	Patblt d)	None of a	bove
549. Which of the fo	ollowing is a resource?	n Ma	ntr	<i>;</i> 🛦
a) Bitmap b)	Dialog box template	c) Html docur	nent c	l) All of the above
550. By default polyg				
a) Dot-dash	b) Solid	Transparent	C	l) None of the above
		7 /	7/	
551. Begin thread pr a) Winuser.h	esent in which header f b) Window's	ile? c) Process's	C	d) None of the above
552. What function a) Stroll ()	to stretch the bitmap is b) Bit blt	s used? c) Stretchable	2 ()	d) Bitmap
a) Stron ()	S) Bit Sit	c, stretenasie	- ()	a) bitmup
553. Which of the fo	ollowing not Virtual key b) VK_NEXT	? c) VK UP		d) None
a) VK_I KEV	b) VK_IVEXT	c) vk_01		y None
	ollowing is the blocking		0	
a) Get message ()	•	Post quit messag	,	
c) Dispatch message	() a)	Translate messag	зе ()	
=	ood design, different mo			
a) Weak cohesion a	· -	b) Weak coh		
c) Strong cohesion a	nd low coupling	d) Strong coh	esion and l	high coupling
556. Spiral model _				
•	f exploratory programm	_		
•	by the assessment of	management ris	k items.	
c) Both 1 and 2				



d)	None of the	above					
	Cohesion is sure of qua		a)				
-	Concept rela		ng				
-	Jnderstand	_	6.1			_	
d) ľ	Vieasure of	closeness o	t the relationsh	ips between t	the system's co	mponents.	
558.	The data in a) Design		re exchanged b b) DFDs		ifferent functio R Diagram d) D	ns are represente Pata Structure	ed as
559.	Which of t a) Water f					gh amount of risk d) Incremental	
560.	Design ph	ase will usu	ally be	·			
a) Bo	ttom-up	b) T	op-down	c) Randor	n d) Centre fringing	
					antri		
a) EII	or correction	OH .	b) Error preve	ention C) E	rror detection	d) None of th	ie above
562.	Which of th	ne following	g are SDLC proc	ess models?			
	aterfall	100		Spiral	d) All o	f the above	
•							
563.	Deploymer	nt of a syste	m refers t <mark>o</mark>				
a) <i>A</i>	Activities pe	rformed in	system t <mark>esting</mark>				
-	=		n into <mark>executal</mark>				
c) 1	The transition None of the	on of the sy above	stem <mark>from its</mark> c	levelop <mark>ment</mark>	<mark>ph</mark> ase to the o _l	perational phase.	. d)
564	Please mat	ch the Snira	al model sector	s· (X-Y)			
	Objective se	· ·	ar moder sector	3. (A. 1)			
	Risk assessm	_	duction				
X3: [Developmer	nt and valida	ation				
X4: F	Planning wit	h their corr	ect characteris	tics:			
				-	ce the key risks		
	-		ne phase are id				
			and the next p	•	•	ftha ganaria mad	مام ما
	'3, X2-Y1, X3		or the system is		.n can be any oi !- Y3, X3-Y4 X4-\	f the generic mod /1	eis a)
	X1-Y2, X2-Y		-Y3	•	X2-Y2, X3-Y1 X4		
•				. ,			
			ld specify				
a) Wl	hy	b) What	c)	How	d) All of the a	above	
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. (window 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 soft	
b) Embedded software and Product-line sof	
	oplication tool for software product development
d) Application software and Data storage	
CO2 Software Engineering encompasses	
603. Software Engineering encompasses -	h) Dragges Draduct and Mathada
a) Process, Methods, and Toolsc) Methods, Tools, and People	b) Process, Product, and Methodsd) People, Process, and Product
c) Wethous, 100is, and reopie	d) reopie, riocess, and rioduct
604. Which one of the following is correct list	t of prescriptive process model?
a) Waterfall, Incremental, Spiral,	b) Waterfall, V-shaped, Prototyping
c) Prototyping, Spiral, Adaptive S/w developm	
=1= 3	
605. Customer needs important functionality	to be implemented at earliest?
a) Waterfall b) Prototyping	c) Incremental d) RAD
606. Risk analysis and 4gl RAD prototyping is	s added to the waterfall model to form a model
a) Spiral b) Prototyp <mark>ing</mark>	c) <mark>V-shape</mark> d d) RAD
	model, which also emphasizes the verification and
validation	
a) Waterfall b) Prototyping	c) Incremental d) V-shaped
608. Requirement should specify	and the state of t
a) Hardware required to complete the projeb) Resource requirement	ect
,	s that describes what proposed software should
provide	s that describes what proposed software should
d) Description of how to develop the system	1
a, besomption or now to develop the system	
609. Stakeholders are asked to rank / prioriti	se requirements & discuss conflicts in priority in
stage of requirement engineering.	,
a) Conflict resolution b) Elaboration	c) Specification d) Negotiation
610. Use-cases are defined from point of	of view
a) An actor's b) A function's c) An actor's	ctor 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
- b) Whether we are building the product
- c) Whether we are building the product right
- 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	:) [[[[]]]		- C L C': .:	
a) Internal failure cost	i) Efforts spent in po	•	_	
b) Appraisal Cost	ii) Efforts spent in p	•	_	daalammant 0 tuainina
c) External failure cost	•		_	development & training
d) Prevention cost	iv) Efforts spent on		esting	
a) a-iv b-iii c-ii d-l	•	b-ii c-iii d-i	•	
c) a-l b-iii c-ii d-iv	d) a-ii b	-iv c-i d-iii	J	
622. There are levels of C	MMi			
a) 5 b) 3	c) 1	d) 6	ı	
623. The objective of projec	t planning is to provi	de a)		
Hardware & software requir	ement			
b) Framework that helps to	make reasonable e	stimates of re	esources, co	st and schedule
c) Only the list of risks ident	fied			
d) None of the above	riram	Mar	ntri	
624. Pick up the correct stat	ement from foll <mark>owir</mark>	g	0010	
a) Project estimates should	not be update <mark>d dur</mark>	ing project de	evelopment	
b) Project estimates should	A. A. S.	-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	-	
c) Project estimates should			A	d) None of the above
o, 11 0,000 communes and m				u, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
625. The purpose of project	management is -			
a) Prediction and prevention	- A) Prediction a	nd reaction	
c) Recognition and reaction		None of the		
c) Necognition and reaction		, wone of the	above	
626. Software project mana	gement is with	in 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 STATEN	ΛΕΝΤ?		
a) Gantt charts are often us	sed for displaying the	e project sche	dule	
b) Gantt chart shows both	planned and actual s	chedule infor	mation	
c) CPM is used for finding	total project cost			
d) Critical path is the longer	st path through the r	network diagr	am .	
628. In Software project ma	nagement. 4 Ps have	to be manag	red in follow	ving order -
a) Project, People, Product, F	=	_		, People, Product
c) People, Product, Process,		•		rocess, Problem
629. Scheduling begins with	Rick identificati	on		
a) Process decomposition		timation	c)	10 estimation
aj i rocess decomposition	N) FF ES	umativii	c, cocoiv	io estimation

 $\,$ 630. One of the limitations of FP analysis is

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a) Evaluation effort is sc) Does not provide phase		b) Facilitates ve d) None of the		
631. Which one of the a) Deliverables are usu All milestones are delived. Deliverables & Mile d) None of the above	ually milestones but verables	milestones need not be eliverables	deliverables	b)
632. Risk assessment is	s done in			
a) Analysis Phase	b) Design Phase	c) Coding Phase	d) All phases o	f the project
633. Risk score (or Risk	Exposure) is a produ	ıct of		
		n project should the risl	c occur	
b) No. of resources or		-		
c) Probability of occur	. , , , , , , , , , , , , , , , , , , ,	•		
		n Mant	10 i A	
C24 Pi l	<u>uruun</u>	t 141 artt		
631. RISK assessment P	rocess involves			
a) Risk identification,				
b) Identify problems,				1) 61
	Assessment & Meas	surement, Planning, Tra	cking, Control	d) None of
the above				
632. In Risk manageme	ant the nurness of Pi	ick Accocoment is		
a) To convert risk dat				
		A STATE OF THE STA		
b) To shift the impactc) To reduce probabil	V	ru-party		N.
c) To reduce probabild) To define roles and	,			
u) To define foles and	responsibilities			
633. Software requirer	ments should not be			
a) Functional	b) Ambiguous	c) consistent		
a) Functional	b) Ambiguous	c) consistent		
634. The decision logic	is expressed by			
a) Data flow diagram	b) Flow chart	c) Structure cha	irt	
635. Validation is to ch	eck			
a) Whether we are bu	ilding the product rig	ght		
b) Whether we are bu	ilding the right produ	uct		

636. Corrective maintenance is to

c) The methodology of software development

- 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 b	e done to solve the p	roblem	
c)	To move quickly to	o program design			
63	8. Object models				
a)	Should include de	tails of the individua	l objects in the syster	m	
b)	Are part of design	?			
c)	Are natural ways	of reflecting the real	world entities that a	re manipulated by the system	ı .
63	9. The three classes	s of interface errors	are:		
a)	Interface misuse,	interface misunders	tanding, timing errors	S	
b)	Interface misunde	rstanding, interface	coupling, data transf	er errors	
c)	Interface coupling	, timing errors, inter	face parameter erroi	S	
		hrirai	n Mar	tri A	
		A	version management		
a) (Controlled change	b) Stor	age management	c) Coding standa	rd
64	1. Which is the non	-technical factor of	maintenance cost?		
a) F	Program age	b) Programm	ing style	c) Program validation	
64	2. Software quality	assurance is a)			
	nulti-tiered testing				
		nd reportin <mark>g mecha</mark>			
c)	An activity that is	applied throughout	the soft <mark>ware pr</mark> ocess		
64	3. Most common b	ut least effective wa	y of debugging is		
a) E	Brute force	b) Backtracking	c) Cause el	imination	
64	4. Equivalence part	itioning is a)			
А١	white-box testing m	nethod			
b)	A black-box testin	g method			
c)	Neither white-box	nor black-box testi	ng method		
64	5. Doing what is sai	id one would do, is t	he definition for		
a) F	Reliability	b) Quality	c) Softwar	e plan	
64	6. The typical elem	ents of the requirem	ents engineering pro	ocess are	
	Problem analysis	ii) Software de		Analysis of staffing needs	iv)
Ex	ternal behaviour sp	ecification			
a) i	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:

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

Answers the followings in brief:

- 650. Explain the concept of black box.
- 651. What are the qualities of software?
- 652. Give the various steps in prototyping.
- 653. What are the various fact-finding Techniques?
- 654. What are the types of decision tables?
- 655. What are the structures of Structured English?
- 656. Give a brief note on acceptance testing.
- 657. Define coupling and cohesion.
- 658. What is maintenance? Explain about various types of maintenance.
- 659. Differentiate between Decision Tree and Decision Table.
- 660. Give the coding guidelines.
- 661. Give the debugging approaches.
- 662. Why Software doesn't wear out.
- 663. Explain about Dos and Don'ts of good coding style.
- 664. Give the contents of SRS document.
- 665. Explain briefly about SEI CMM.
- 666. What is feasibility study? Explain about various aspects of feasibility.
- 667. Define normalization and explain about first three normal forms. 668. What is changeover?

 What are the types of changeover?
- 669. Differentiate between Black Box and White Box testing
- 670. Explain about Interview as a Fact Finding technique
- 671. What are the various factors that influence software cost-estimation?
- 672. Write a short note on structured charts.
- 673. Explain about the various concepts of a system.
- 674. Give Salient features of CASE tools.
- 675. Explain about various stages of software Development according to classical life cycle.

Answers the followings in detail:

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



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

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

 Scanner is provided to capture the "from" and "to" addresses from the envelop. The clerk uses your software to issue receipts to the customers. This is expected to reduce the

 Waiting time at the counter."
 - Suppose that a 50-KDSI (Thousands of delivered source instructions) application Program can be purchased for Rs. 2,000,000/-. Assuming that your in-house programmers Cost Rs.30, 000/- per programmer month (including overheads), would it be more cost Effective to buy the product or to build it?
- A Manager decides to use the reports of code inspections as an input to the staff Appraisal process. These reports show who made and who discovered program errors. Is This ethical managerial behaviour? Would it be ethical if the staff were informed in advance? That this would happen? What difference might it make to the inspection process?



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



large number o	e of Commerce is an ur f applications for decided to computerize	admission to FY, SY a	and TY. B com o	classes.
Procedure require	es adhering to the nor	ns set by concerned a	government ag	encies, the
University and the	e college administratio	n. The procedure also	o involves disb	ursing admission
	collecting duly complet	•		=
	otifying students, collec	· · · · -		-
concerned authoritie (i)Entities:				, ., ., ., .
a) Processes	b) Data flows	c) Data	Stores	
715. Which SDLC Mo beginning	del is best suited wher	only part/some of th	ne requirement	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?	Y7 0	71.//		
a) Uses b) E	xtends (c) I	ncludes / / / / c	d) None of the	above
	ity that is extemal to t	• / /	interacts with t	the system and
deriving some be	nefits from the inter <mark>ac</mark>			
a) Actor b) U	Jse case	c) Class	l) Relationship	
718 Review activity	of any software is unde	ar which kind of Testi	ng?	
a) Black Box Testing		ng c) Dyn <mark>amic Tes</mark> ting	, <u>/</u> =	Box Testing
	itioning is a <mark>test case</mark> g	enera <mark>tion tech</mark> nique,	forki	nd of Testing
Technique. a) Static Testing	b) White Box Testing	c) Black Box	Tosting	d) Red Box Testing
a) Static Testing	b) write box restills	c) black box	resting	d) Ned Box Testing
<u>*</u>	anagement Triangle. V	•	•	
a) Time	b) Scope c) (Cost d) All of the	above are equa	ally important
721. Quality assurance	ce help for			
a) Process improveme	ent	b) Testing		
c) Removal of defects	before release	d) All of the above	!	
722. Refers to the su	pport phase of softwar	e development.		
a) Adaption	b) Enhancement	c) Maintenance	d) Actions	5
723. Which one of th	e following is the proc	ess of factoring the d	esign module?	a)
Software re-engineer	ring b) Con	figuration manageme	ent	
c) Software maintenai	nce d)	software Refactoring		

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724. Which of the f	following process is not p	art of Project Risk Mar	nagement? a)	
Risk Identification	b) Effor	t estimation		
c) Risk Analysis	d) I	Risk Response Develop	ment	
725. Enhances perf	formance 8. Functionality	of the software after	delivery.	
a) Re-design	b) Re-engineering	c) Maintenand	ce d) Post checkir	ng
726. Which of the f Feasibility study c) Requirement defi	following is not a stage of b) Requiremen inition d) Impler	·	ring process? a)	
727. Which of the f	following meetings is not	part of Scrum?	a)	
Product review me	eting	b) Sprint review meeti	ng	
c) Sprint planning m	neeting	d) Sprint retrospect	ve meeting	
728. In Scrum, the	prioritized work to be do	ne is referred to as		
a) Sprint planning	b) Product bac	klog c) Sprint retro	spective d) Standup me	etings
729. Software risk	impact assessment shoul	d focus on consequence	ces affecting a))
Planning resources	oost & schedule	b) Marketabilit	y oost & personnel	
c) Business, techno	ology & process	d) Performance	<mark>e suppo</mark> rt, oost & schedu	ale
Top-down integrat c) Module integration 731. To check whe		b) Bottom-up integrat None of the above he righ <mark>t produc</mark> t accord	ding to the customer	
a) Validation	b) Quality Assurance	c) Verification	d) Quality Cont	trol
732. A reliable syst	em will be one:			
a) That is unlikely to c) That is likely to be	o be completed on sdtedu e fault-free	•	s unlikely to cause a fail s likely to be liked by the	
733. To test a func	tion, the programmer ha	s to write a passes it te	st data.	
a) Stub	b) Proxy	c) Driver	d) None of the above	е
A small team to est b) Everyone who i c) The independe	testing tool is purchased.itablish the best way to us may eventually have som nt testing team ntractor to write the initia	se the tool ne use for the tool	оу: а)	

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 pro	cess methods.
737. The identification	n of stakeholders a	and user clas	ses in requiren	nents engineerin	g is carried out
a) Elicitation	b) Analysis	c) Ver	ification	d) Specificatio	'n
738. Which among the execution of tests? a) Test incident report	briva	m A	Tant	evant details abo	
739. What is not inclu	ded in a System R	equirement	Specification D	ocument?	
	fic Requirements	, , , , , , , , , , , , , , , , , , ,	/ ·		erences
740. Project risk facto a) Spiral Model c) Prototyping Model	b) Wate <mark>rfa</mark>	II Model e enhanceme	ent Model		
741. Formal Reviews of criteria are	of an indivi <mark>dual pr</mark>	oduct use <mark>d t</mark>	<mark>o eva</mark> luate cori	ectness based or	n its input
a) Inspections	b) Checkpoint re	eview	c) Testing	d) Walk	through
742. Which of the beloa) Identify Constraints	· · · · · · · · · · · · · · · · · · ·	es is not part Algorithms	-	_	ntify Milestones
743. Which Agile prind a) Incremental Delivery	•				
c) PMO Policy	· · · · · · · · · · · · · · · · · · ·	test Technol	=		
744. Which of c the Unit Inception phase c) Consumption phase	b) Elabora	ntion phase	are developme	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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	1 d DACT	cb 20 301tware Application	ii bevelopilient 100i.	s & reciniques	
-		(20% of any product requ you produce others will co		t)	
74		ollowing is valid reason(s) a) Allows developers to ma			delivered
b)		le can be revised to reflect	_	chvered merement	
•	•	identify dwanges to incorp	_	ement	
-	All of the above				
		ollowing is not generally co		•	
a) (Customers	b) End-users	c) Sales peopl	e d) Project mana	igers
74	8. Does an organi	ization develop one lifecyo	cle model?		
a) F	or all the projects	s b) For each proje	ect c) For ea	ach do main	
75	0. Find the odd o	ne out of the following:			
a) \$	Step wise refinem	ent b) Structur		Information hiding	
75	1. Corrective mai				
a)	Improve the sys	tem in some way witho <mark>ut</mark>	changing its function	nality	
b)	Correct the undi	iscovered errors			
c)	Make changes in	n the environment			
	2. Analyse is phas				
-	-	solve the problem			
b)		ie exactly wha <mark>t must b</mark> e do to program <mark>design</mark>	one to solve the prob	olem	
		Ba	sic		
Q.	1 From the follow	ving which quality deals wi	th maintaining the q	uality of the software pro	oduct?
a. C	Quality assurance	b. Quality control	c. Quality efficiency	d. None of the a	above
Q. a. Y		ed design is comprised of b. No	many smaller sub-sy	stems is known as, Funct	ions.
u. 1		5.110			
Q.	3 State if the follo	owings are true or false.			
Fo	r scheduling a pro	oject, it is necessary to:			
	-	project tasks into smaller,	manageable form.		
		tasks and correlate them.	A) Divide Here to	aulalka	
	Estimate time fra 'rue	me required for each task b. False	. 4) וויטומe time into	work-units.	

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

b. Monitoring the progress

for _____ .
a. Project planning.

66



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
a. True b. False	
Q.6 Which quality deals with the	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.	iccording to given below statement. ities are independent of any one framework activity and occur ty assurance, software configuration management are umbrella
·	ty assurance, software configuration management are not umbrella
activity.	TA CATAO LA AMAGAMATA ANTINA CATAO
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.
Q.8 The interviews, which are h	eld between two persons across the table is
a. Written b. Non-structu	
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
a. Functional Cohesion	b. Communicational cohesion
c. Sequential cohesion	d. Procedural cohesion
•	word processor is a module of software. False
capability of getting	ped together if they have similar functionality, process activities and integrated with other tools.
a. True b.	False
Q.13 Which tool consist of prog 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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•	ow of control in program c. Both A & B d. None				
Q.15 Abbreviate the te					
a. Hierarchical Input Pro	ocess Output	b. High-level Input Pro	cess Output		
c. Huge Input Process Output		d. None of the above			
Q.16 The total number	· ·	-	measures are used in		
a. Lawrence theory	b. Halstead's the	c. Kyburg,	H. E. d. Jech, T.		
Q.17 Hazard analysis for cause the	ocuses on the identifica ·	tion and assessment of	potential hazards that can		
a. External problems	b. Internal problems c.	Both A & B d. None of	the above		
=	es the overall reliability		ojected and certified?		
a. Sampling model	b. Compon	ent model			
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 <mark>the soft</mark>	ware is m <mark>oved fro</mark> m or	ne platform to another?		
a. Maintenance	b. Operational	c. Trans <mark>itional</mark>	d. All of the above		
Q.21 A software project.	ct manager i <mark>s a perso</mark> n v	who u <mark>ndertak</mark> es the res	ponsibility of carrying out the		
a. True	b. False				
Q.22 From the following	ng methods which size o	of the software product	can be calculated?		
a. Counting the lines of	a. Counting the lines of delivered code b. Counting delivered function points				
c. Both A and B		d. None of the above			
	tool that depicts project n events of project in bo	_	nat is capable of graphically tive 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 Dev Waterfall Model	•	Iterative Development oth a and b	c) Linear Development	t d)				
3. Which on of the	following is not an agile	e method?						
a) XP	b) 4GT	c) Al	JP					
4. Agility is define	d as the ability of a pro	ject team to respond rap	oidly to a change.					
a) True	b) False							
5. How is plan dri	ven development diffei	ent from agile developm	ient?					
a) Outputs are de	cided through a proces	s of negotiation during t	he software development prod	cess.				
b) Specification, d	b) Specification, design, implementation and testing are interleaved							
c) Iteration occur	s within activities							
6. How many phase	es are there in Scrum?							
a) Two b) T	hree c) Four	d) Scrum is an agile meth	nod which means it does not h	ave phases.				
-		vhen team members hav	e a relatively high skill					
level. a) Tr	ue	b) False	- A					
		ply to agility to a softwa						
a) Uses incrementa produced	I product delivery strat	egy / L / L (L)	b) Only essential work produ	cts are				
c) Eliminate the use	e of project planning a	nd testing						
9. Which three fran	nework activities are pr	esent in Adaptive Softwa	are Development (ASD)?					
a) Analysis, design,			ve cycle planning, iterative de	velopment				
	aboration, learning			·				
10. In agila dayalan	mont it is more import	ant to build coftware the	at meets the customers' needs	today than				
	atures that might be no		it meets the customers needs	today tilali				
a) True	b) Fa <mark>lse</mark>	eded in the future.						
-	b) I alse							
11. Agile is	13.0	\	1) 5 11 1 0					
a) Sequential	b) Iterative	c) Incremental	d) Both b & c					
	dvantage/s of Agile te	esting?						
a) Saves time								
b) requires less pl	anning and creates le	ss documentation						
c) Regular feedba	ck from end users							
d) Solves issue in	advance by daily mee	eting						
e) All the above								
13. Who will test	the system in agile de	evelopment?						
a) software tester	b) Develo	per c) Busine	ss Analyst d) All th	ne above				
14. When accepta	ance testing is perforr	ned in Agile developm	ent?					
a) On request of co	ustomer	b) After system is re	ady					
c) At the end of ea		d) Daily	•					

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15 .In agile development, I True b) False	engthy documentation	is created. a)	
16. Which skill are requireda) Domain knowledgeb) Keen to learn and adoptc) Effective communicatorabove	t new technology	elationship with develo _l	oment 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	t backlog?		
a) Product owner	b) Scrum team	c) Scrum master	d) All the above
 Arrange following scru Sprint planning Daily scrum meet Sprint retrospective me Sprint review meet Sprint a) 1,5,2,3,4 Which of the following UN a) Collaboration What type of core-relation 	tet 1,3 c) 1,2,5,4,3 UM 1L diagrams has a static v b) Use case	d) 1,3,2,4,5 L – 1 riew? c) State chart	d) Activity
◆			
a) Aggregation	b) Dependency	c) Generalization	d) Association
3. Which core element of UN	/IL is being shown in the	figure?	

c) Class

a) Node

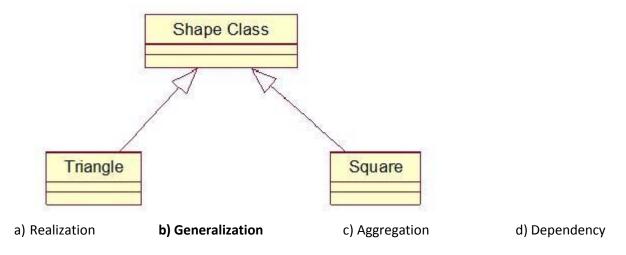
b) Interface

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

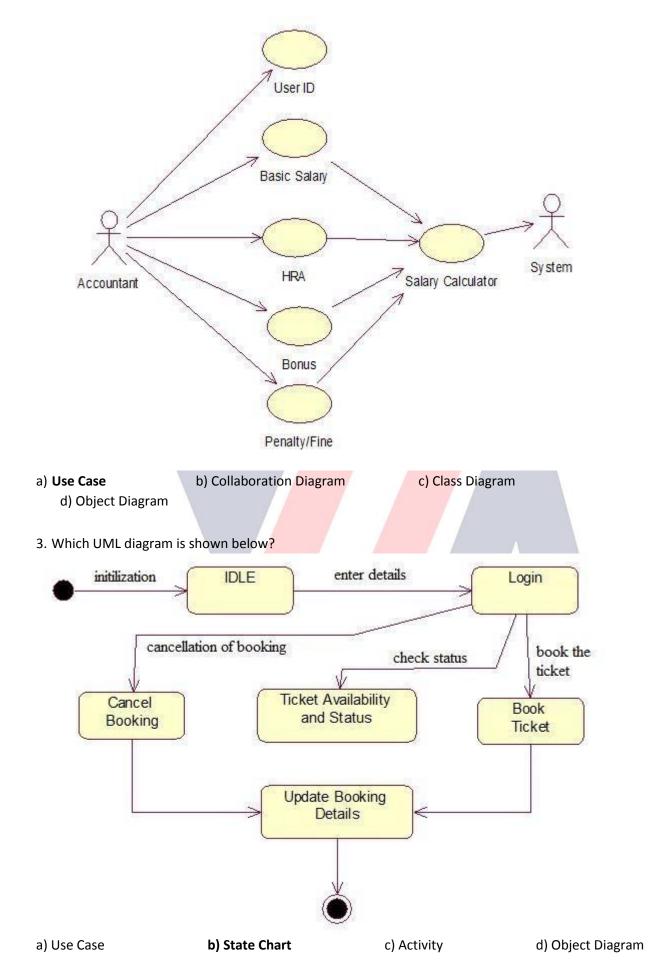
d)

nine

2. Which UML diagram is shown below?

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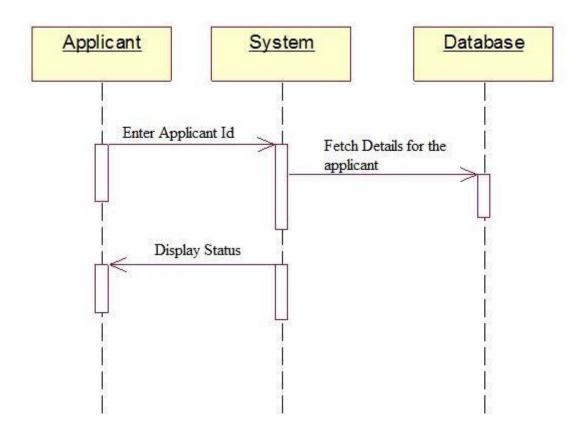


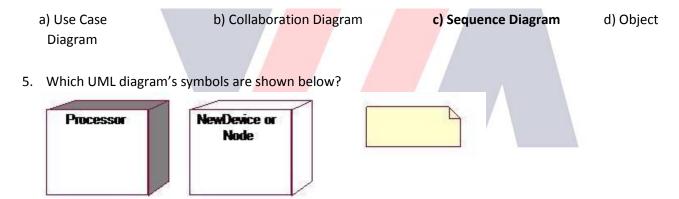


4. Which UML diagram is shown below?

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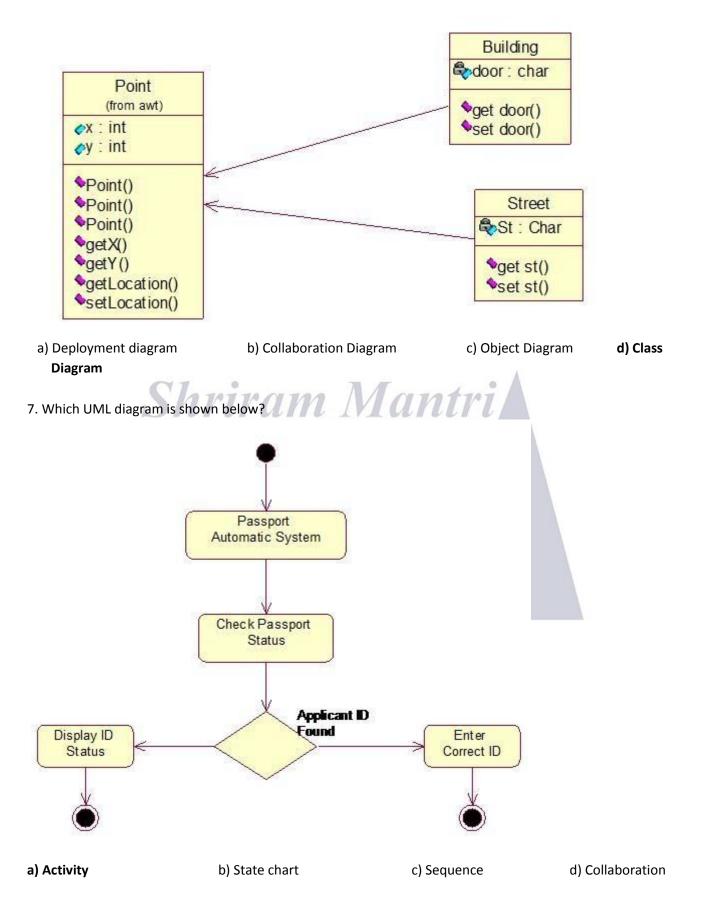


- a) Deployment diagram
 Diagram
- b) Collaboration Diagram
- c) Component Diagram
- d) Object

6. Which UML diagram is shown below?

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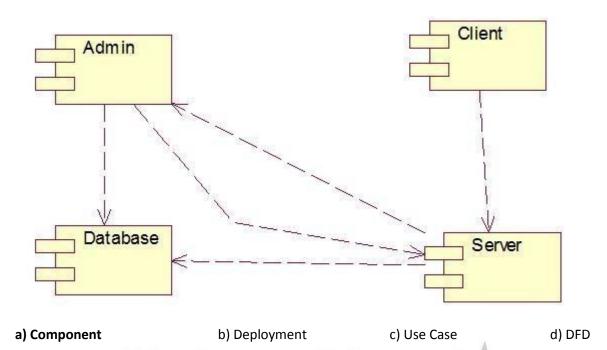




8. Which UML diagram is shown below?

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Software Testing Techniques - 1

- 1. Which of the following term describes testing?
 - a) Finding broken code b) Evaluating deliverable to find errors the
- 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?



a) Unit Testing b) System Testing mentioned		c) Integration Testing	d) All of the
9. Boundary value analys	sis belong to?		
a) White Box Testing	b) Black I	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	planning 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	g is non-functional testing?		
a) Black box testing	b) Performance te <mark>sting</mark>	c) Unit testing	d) None of the mentioned
E. Bata tastina in days at			
5. Beta testing is done at	b) Develo <mark>per's end</mark>		
a) User's end	b) Developer's end		
6. SPICE stands for			
	provement and Compatibility D	etermination	
	provement and Control Determ		
•	provement and Capability Det		
d) None of the mention			
7. Unit testing is done by	<i>(</i>		
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	g 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 following	ng is not used in measuring the	size of the software	
a) KLOC	b) Function Points	c) Size of module	
	Life Cycle	Models	



a) 100-200	b) 200-400	C) 400-1000	u) above 1	1000
 RAD stands for Relative Application Rapid Application Rapid Application [Development			
3. Which one of the foa) Build & Fix Model	ollowing models is not suit b) Prototyping N	_	-	d) Waterfall Model
 Which is not one of a) Horizontal Prototy Prototype 	f the types of prototype of ype b) Vertical Pro	· · · ·	onal Prototype	d) Domain
5. Which one of the fo a) Quick Design	ollowing is not a phase of b) Coding	Prototyping Model? c) Prototype Refir	nement	d) Engineer Product
6. Which of the follow a) No room for struct c) Maintenance is pra		b) Code soon be	F 71/9 11 AMA	ole & unchangeable vjects
7. RAD Model has				
a) 2 phases	b) 3 phase	c) 5 phases	d) 6	phases
			d) Both	a & c.
9. SDLC stands fora) Software Developc) Software Design Li	•	• •	Development Life Design Life Cycle	e cycle
10. Which model can a) Waterfall Model	be selected if user is invol b) Prototyping I	•		d) both b & c
Fu	unction Orie	nted Softwar	e Desig	n

- ${\bf 1.}\ Choose\ the\ option\ that\ does\ not\ define\ Function\ Oriented\ Software\ Design.$
- 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
- d) Both a and b

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3.	Function-oriented design tech	nniques starts with function	al requirements specified in	
a)	SDD	b) SRS	c) None of the mentioned	
	Structured Analysis is based o	·		
-	Top-down decomposition app		b) Divide and conquer princ	iple
c)	Graphical representation of re	esults using DFDs	d) All of the mentioned	
5.	Which of the following is/are	true with respect to functio	ns?	
a)		·		
b)		•		
c)	·	•	ole in DFD	
d)		, , , , , , , , , , , , , , , , , , , ,		
6	Which of the following is not	a use of a CASE tool?		
	Support structured analysis a		b) Maintains the data dictionary	,
	Checks whether DFDs are bala			
C)	Checks whether DFDs are bala	anced or not	d) It complies with the availab	e system.
7.	What DFD notation is represe	nted by the Rectangle?		
a)	Transform b) Da	ata Store c) Fund	tion d) None of the m	entioned.
Q	Structural decomposition is co	oncerned with function calls		
	True b) Fa			
aj	D) Te	lise		
9.	A function-oriented design fo	cuses on the entities in the	sy <mark>stem rat</mark> her than the data processin	g activities.
		False		
,				
10). In DFDs, user interactions w	ith the system is denoted by		
	Circle b) Arı			
ω,	5,7.			
		Project Mana	gement	
1.	Which of the following is not	nroject management goal?		
a)				
b)		•	me	
c)	Maintaining a happy and we	•		
d)		= -	team.	
uj	Avoiding costumer complai	1165.		
2.	Project managers have to ass	ess the risks that may affect	a project.	
a)	True	b) False		
2	Which of the following is not	considered as a risk in proje	ct management?	
	Specification delays	b) Product competition		ff turnover
uj	Specification delays	5) i roduct competition	cy resume u) sta	ii tariiovei
4.	The process each manager fo	llows during the life of a pro	ject is known as	
a)	Project Management	b) N	lanager life cycle	
b)	c) Project Management Life	Cycle d) A	ll of the mentioned	

5. A 66.6% risk is considered as



a) very low	b) low	c) moderate	d) high	e) very high
software deve a) Travel and tra	d software costs	ameters that you shou	ld use when cor	mputing the costs of a
b) effort costs (th	e costs of paying softwa	re engineers and mana	agers)	
7. Quality plannin	ng is the process of deve	loping a quality plan fo	r	
a) team	b) project	c) customers		d) project manager
8. Which of the fo a) Internship mar management		-	on managemen c) Version man	·
9. Identify the sub a) Process introdu	b-process of process imputed by Process and By Proc		rocessification	d) Process distributio
10. An independe quality attributea) True	· V	st between the attribu	te that can be r	neasured and the external
	Pr	oject Plann	ing	
Which of the form Project size uncertainty	ollowing is an important b) Planning proces	factor that can affect t	<mark>he a</mark> ccuracy and	d efficacy of estimates? d) Degree of structural
	s the data and con <mark>trol to</mark>			
a) Planning procesc) External hardw		re scope complexity		
	dependent investigators t can be applied to estab	•		roach to requirements
a) JAD	b) CLASS	c) FAST	d) No	one of the mentioned
4. CLSS stands for	-			
a) Conveyor line	sorting system	b) Conveyor li	ne sorting softv	vare
c) Conveyor line s	sorting speed	d) Conveyor lin	e sorting specifi	cation
5. The project pla	nner examines the state	ement of scope and ext	racts all import	ant software functions which
a) Association	b) Decomposition	on c) Planning	process	d) All of the mentioned
6. The environme	ent that supports the sof	tware project is called		
a) CLSS	b) SEE	c) FAST d) C	BSE	
7. Which of the fo	ollowing is not an option	to achieve reliable cos	st 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.

d)	The ability to translate the size estimate into human effort, calendar time, and dollars.
8. \	What can be used to complement decomposition techniques and offer a potentially valuable estimation approach in their own right?
a)	Automated estimation tools
	Empirical estimation models
	Decomposition techniques
d)	Both Automated estimation tools and Empirical estimation models
9. \	Which of the following is not achieved by an automated estimation tools?
a) P	redicting staffing levels b) Predicting software cost
c) P	redicting software schedules d) Predicting client's demand
and	Software project estimation can never be an exact science, but a combination of good historical data techniques can improve estimation accuracy. a) True Software Process and Product – 1
1. \	Which one of the following is not a softwa <mark>re proces</mark> s quality?
a) [Productivity b) Portability c) Timeliness d) Visibility
2	&are t <mark>wo kinds o</mark> f softwa <mark>re produc</mark> ts.
a) (cAD, CAM b) Firmware, Embedded c) Generic, Customised
	oftware costs more to maintain th <mark>an it doe</mark> s to devel <mark>op. True b) False</mark>
a) l b) l	Which one of the following is not an application of embedded software product? Sey pad control of a security system Stattern recognition game playing Stigital function of dashboard display in a car
5. F	Purpose of process is to deliver software
a) i	n time b) with acceptable quality c) that is cost efficient d) both a & b
6. 7	The work associated with software engineering can be categorized into three generic phases, regardless of application area, project size, or complexity namely the phase which focuses on what, the phase which focuses on

c) 3, 2, 1

c) Modelling & Construction

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

7. Which of the following activities of a Generic Process framework provides a feedback report?

b) 2, 1, 3

change. i. support ii. development iii. definition

a) True

a) 1, 2, 3

a) Communication

b) False

b) Planning

d) 3, 1, 2

d) Deployment



activities and help	J	•	•	•	ess tramework
a) Re-usability manager	ment	b) Risk managem	ent		
c) Measurement		d) User Reviews	e) S	Software quality	assurance
10. Four types of chang that falls into such		ed during the supp	ort phase. Whi	ch one of the fo	llowing is not one
a) Translation	b) Correction	n	c) Adapta	ation	d) Prevention
S	oftware l	Process a	nd Prod	duct – 2	
1. If a software produ	ıction gets behind	l schedule, one car	n add more pro	grammers and o	catch up.
a) True	b) False				
2. Choose an internal	software quality	from given below:			
a) scalability reliability	b) usability	c) re	eusability	d)	
	Thrir	am N	lant	riA	
3. RUP stands for		by a division of _			_
a) Rational Unified Pro			1 -	<mark>nified Pro</mark> cess, II	•
c) Rational Unified Pro	cess, Microsoft		d) Rational U	nified Process,	IBM
4. The RUP is normally	described from th	ree perspectives-	dvnamic, static	& practice. Wh	at does static
perspective do? a)					
b) It suggests good pr	V				
c) It shows the phase					
o, nomeno me pinace					
5. The only deliverable	le work produ <mark>ct fo</mark>	or a successful pro	ject is the work	ing program. a)
True	b) False				
6. Which phase of the			-		
a) Transition	b) Elabora	ntion c	c) Construction		d)
Inception					
7. Which one of the fol	lowing is not a fu	ndamental activity	for software p	rocesses in soft	ware engineering?
a) Software Verificatio	_	tware Validation	-		implementation
d) Software evolution	· ·	ware specification		G	·
,	,	•			
8. A general statement efforts.	of objectives is th	ne major cause of	failed software		
a) True	b) Fal	se			
9. The longer a fault ex					
a) the more tedious its			-	costly it is to det	ect and correct
c) the less likely it is to	be properly corre	cted	d) All of the	mentioned	

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10. Component-based	d Software Enginee	ring allows faste	er delivery.	
a) True	b) Fa	ılse		
11. Arrange the follow	wing steps to form a	a basic/general	Engineering Process	
	Design iii. Install iv.	Specification v.		
Manufacture vi. N		4.0.6	\2.45.42.6	1) 4 2 5 4 6 2
a) 2, 4, 5, 1, 6, 3	b) 4, 2, 5,	1, 3, 6	c) 2, 4, 5, 1, 3, 6	d) 4, 2, 5, 1, 6, 3
	Requi	rement	Engineering	5
1. What are the types	of requirements?			
a) Availability	b) Reliability	c) Usability	d) Flexibility	e) All of the mentioned
2. Select the develope	er specific requirem	nent?		
a) Portability	b) Main	tainability	c) Availability	d) Both a and b
3. Which one of the fo	ollowing is not a ste	ep of requireme	nt engineering?	
a) Elicitation	b) Design		c) Analysis	d) Documentation
4. FAST stands fora) Functional Applicatc) Facilitated Applicat			b) Fast Application	on Specification Technique mentioned
5. QFD stands for				
a) quality function des	ign	b) quality for	unctio <mark>n develo</mark> pment	
c) quality function dep	oloyment	d) none of t	he m <mark>entioned</mark>	
6. A Use-case actor a) True7. The user system ra) SDD	b) False	ne parts of which	at different people may h document? DDD	play.
u, 355	5,5113	c, i		
8. A stakeholder is an a) True	yone who will purc b) False	hase the compl	eted software system u	nder development.
9. Conflicting required version is the righ		in Requiremen	t Engineering, with each	h client proposing his or her
a) True	b) False			
10. Which is one of that a) Entry level personresoftware	•	stakeholder fror level stakehold	_	d) Users of the

Software Metrics

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



· ·	essment of status of ong	going project.	b) Track potential risk	c) both a and l	b d) none o
the mentioned					
	•		vare quality and organiza	•	:e?
a) Market	b) Product		c) Technology	d) People	
3. The intent of	of project metrics is:				
a) Minimizatio	n of development sched	dule	b) For strategic p	urposes	
c) Assessing pr	oject quality on ongoin	g basis	d) Both a and c		
4. Which of th	ne following is not a dire	ect measure o	f SE process?		
a) Efficiency	b) Cost		c) Effort Applied	d) All of the r	mentioned
5. Which of th	ne following is an indired	ct measure of	product?		
a) Quality	b) Comple		c) Reliability	d) All of the I	Mentioned
, , ,	, ,	,	,		
6. In size orier	nted metrics, metrics ar	e developed l	pased on the	· A	
a) Number of memory u		mber of user i	nputs c) Number of	f lines of code	d) Amount of
	V =		main required for detern		
a) Number of	•	mber o <mark>f user l</mark>	<mark>Inq</mark> uiries c) Number o	of external Interfac	ces d)
Number o	of errors				
0 11 1 111					
	n be measured in terms				
-	skill to learn the system		n system usaga		
	red to become moderate in productivity	ely efficient ii	n system usage		
•	· V				À
d) All of the m	nentioned				
9. A graphical	technique for finding if	changes and	variation in metrics data	are meaningful is	known as
a) DRE (Defect	Removal Efficiency)	b) Fur	nction points analysis		
c) Control Chai	rt	d) All d	of the mentioned		
10. Defects re	moval efficiency (DRE)	depends on:			
a) E – errors fo	ound before software d	elivery	b) D – defects found afte	er delivery to user	
c) Both E and D)		d) Varies with project		
	Softv	vare M	aintenance	- 1	
1. Software M	laintenance includes				
a) Error correct	tions	b) Enh	ancements of capabilitie	es	
c) Deletion of	obsolete capabilities	d) All of th	e mentioned		
2. Maintenand	ce is classified into how	many catego	ries?		
a) Two	b) Three	c) Fou		e	

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3. The modification of the category of software		anges in the ever changing	environment, falls	under which
a) Corrective	b) Adaptive	c) Perfective	d) Preventive	
4. How many phases are	there in Taute Mainten	ance Model?		
a) Six	b) Seven	c) Eight	d)	
Nine				
5. What type of software a) Regression Testing	e testing is generally use b) System Testing	ed in Software Maintenanc c) Integration		nit Testing
C. Daniela de la collège				
6. Regression testing is aa) True	b) False			
7. Selective retest techn retest techniques ar		nomical than the "retest-a	ll" technique. How n	nany selective
a) Two	b) Three	c) Four	d)	
Five				
	t technique selects every n its original version? b) Minimization	y test case that causes a m	odified program to	produce a
0 mos	ocures the ability of a res	grassian tast salaction tack	pique te bandle res	dictic
9 mea	asures the ability of a reg	<mark>gres</mark> sion test s <mark>election</mark> tech	inique to nanule rea	HISUC
a) Efficiency	b) Precision	c) Generality	d) Inclusiveness	
10. Which regression tes	st selection te <mark>chnique e</mark> x	rposes f <mark>aults cau</mark> sed by mo	odifications?	
a) Efficiency	b) Prec <mark>ision</mark>	c) Generality		siveness
-,,				
	C - Character II	M - ! +	2	
		Maintenance	- Z	
1. The process of genera				
a) Software engineering Reengineering		ineering c) Reverse	e engineering	d)
2. What is a software pa		.		
a) Required or Critical Fi	•			
c) Daily or routine Fix	d) None of the m	nentionea		
3. Which one of the follo	owing is not a maintenar	nce model?		
a) Waterfall model	·	leuse-oriented model		
c) Iterative enhancement	: model d) O	Quick fix model		
4. What does ACT stands	s for in In Boehm model	for software maintenance	?	
a) Actual change track	b) Annual	change track		
c) Annual change traffic	d) Actual o	change traffic		

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

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a) It helps in developme c) both a and b	nt of software	b) It helps in m d) none of the	naintenance of soft mentioned	ware	
6. What are legacy systems	ems? b) old systems	c) under-dev	veloped systems	d) non	e of the mentioned
a) new systems	b) olu systems	c) under-dev	reiopeu systems	u) nom	e or the mentioned
7. Which of the following	ng manuals is not a	user documenta	ition?		
a) Beginner's Guide	b) Installa	ation guide	c) Reference	Guide	d) SRS
8. Which of the following a) SRS -Software Requires System Overview	_		n? Goftware Design Do	cument	c)
9. The process of transf	orming a model in	to source code is	known as		
a) Forward engineering	b) Reve	erse engineering	c) Re-enginee	ering	d) Reconstructing
10. How many stages as a) Two Software Co 1. Which of the following a) computer programs a) data d) All of the men	b) Three Onfigurat ng categories is par b) documents	c) Fo ion Mana rt of the output o	agement -	d) Five - 1 ?	maintenance?
2. Which is a software of impeding justifiable	\-\	agement concept	that helps us to co	ntrol cha	nge without seriously
a) Baselines	b) Source code	c) Data	model	d) Non	e of the mentioned
3. Software Configuratia) A single software cb) A separate configurac) Software Configura	onfiguration mana ration managemen	agement team fo t team for each p	r the whole organi project	zation	
4. What combines proc created during the		o manage differe	nt versions of confi	guration	objects that are
a) Change control5. What complements to are generally not control		al review by asses	· ·	-	of the mentioned for characteristics that
a) Software configuration	on audit		onfiguration manag	ement	
c) Baseline		d) None of the	mentioned		
6. Which of the following compiling and linking	-		· · · · · · · · · · · · · · · · · · ·	data, and	libraries, and then
a) System building	_	management			
c) Change management	d) Version	management			

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 sys	stem components ed
8. Which of the following i a) Configuration item iden c) Release management	tification b) Risk r	iration Mana managemen nch manage	t	y?	
9. The definition and use of a) ISO 9000		ment standa c) CMMI		for quality ce	
10. What involves preparir been released for custa) System building	=		keeping track o Change manag		versions that have d) Version
management					
Softwa	re Configura	ation I	Manage	ment -	- 2
1. Which of the following p maintained?a) Code line	b) Configuration co		ems and compo	<i>^</i>	corded and Vorkspace
2. Which of the following p	process is concerned wit	h analysing t	the costs and be	enefits of pro	posed changes?
a) Change management	b) Ver <mark>sion n</mark>	nanagement			
c) System building	d) Re <mark>lease n</mark>	nanagement			
3. Which of the following i	s not a Versio <mark>n manage</mark> r	nent feature	?		
a) Version and release iden	tification b) Bui	ild scri <mark>pt ger</mark>	neration		
c) Project support	d) Cha	nge history	<mark>rec</mark> ording		
4. Which method recomme testing to discover soft		system build	ls should be car	ried out with	automated
a) Agile method	b) Parallel co	ompilation n	nethod		
c) Large systems method	d) All of the	mentioned			
5. Which of the following i	s not a build system feat	:ure?			
a) Minimal recompilation	b) Documen	ıtation genei	ration		
c) Storage management	d) Reporting	5			
6. Which of the following i	s a collection of compon	ent versions	that make up a	a system?	
a) Version	b) Code line	c) Bas	seline	d) None	of the above
7. Which of the following i	s a configuration item?				
a) Design specificationAll of the mentioned	b) Source code	c) Test s	pecification	d) Log info	rmation e)
8. Which of the following ia) electronic and paper d	·		1		

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 targe	et hardware d) all of the
9. A sequence of basel	ines representing (different versions of a system is k	known as
a) System building	b) Mainline	c) Software Configuration Iter	
10. Which of the follow version in an exist	_	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 tean	d) Project manager
a) Product risk3. Which of the follow	b) Project risk ing term is best de	fined by the statement: "There w	d) Programming risk
management with a) Staff turnover	b) Technology char		ge d) Product competition
system is built is s	uperseded by new	A	derlying technology on which the
a) Technology changec) Requirements change		of the mentioned	
5. What assess the risk risk?	and your plans fo	<mark>r risk</mark> mitigatio <mark>n and re</mark> vise these	when you learn more about the
a) Risk monitoring	b) Risk plann	ing c) Risk analysi	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	risks 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 ris	sks d) Organizational risks
8. Which of the follow maximize informa	_	fined by the statement: "Derive t lesign."?	raceability information to
a) Underestimated dev None of the above	•	b) Organizational restructuring	c) Requirements changes d)
9. Which of the follow	ing strategies mea	ns that the impact of the risk will	be reduced?
a) Avoidance strategie	s b) Minimi :	zation strategies	
c) Contingency plans	d) All of th	ne above	

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management	_		ne most impor	b) False	
11. Every risk ha a) True	s 100% likelihoo b) False	d. True or false			
12. Risk manage a) Customer	ment is respons b) Investor	ibility of the c) Developer	d) Proje	ct team	e) Production team
13. Risk is expre	ssed in terms of b) False	probability and	impact.		
14RE represen a) Risk expense		d expense	c) Risk e	xposure	d) Risk evaluation
website? a) Shortage of to b) Many change c) Delay in fixing d) Failure to traine) All of the about 16. Which of the a) Risk avoidance c) Risk contingent	s in SRS that caug defects by deve nsfer a user to s ve e following techr e technique	sed changes in elopment team ecure gateway ique will ensur b) Risk	test cases while paying	of risk will b	e less?
17. What is asso	ciated with proc	luct risk?			
a) Control of test	•		b) Negat	tive conseque	ences
c) non-availability	y of test environ	ment	d) Test o	object	
18. Risk manage a) True		nt part of a pro alse	ject manager	nent. True or	false.
19. After deploy functionality a) QA personnel	ment of a syster . Who is going to b) Develo	determine ho		I hamper the	=
10. Which is/are	ways to deal wi	th risk?			
a) Mitigate	b) Contin	gency c) Transfer	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 the user's memory load
- c) Make the interface consistent d) All of the mentioned

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DevOps Q.1) Which one of the following methodologies does least impact the establishment of DevOps						
a) Mental image b) interface de	sign c) system im a	age d) interface validation.				
information that describe system s	syntax and semantics?	pased system, coupled with all supporting				
9. What establishes the profile of end-a) Design model b) user's m	•	mage d) system image				
8. What incorporates data, architectur a) Design model b) user's n	· ·					
a) True b) False						
7. A software engineer designs the use design principles.	er interface by applying an i	terative process that draws on predefined				
	d) all of the mentioned					
6. A software might allow a user to into a) keyboard commands	eract via b) mouse movement					
d) all of the mentioned						
c) the design of the interface between	en two c <mark>omputer</mark> s					
b) the design of interfaces between t		oducers and consumers of information				
5. Which of the following option is nota) the design of interfaces between s		e design?				
c) objects that appear on the screen	d) all of the mention	ed				
4. When users are involved in complex a) short-term memory	b) shortcuts					
d) Interface validation						
c) Knowledgeable, frequent users						
b) Interface design	s and modelling					
3. Which of the following is not a user a) User, task, and environment analysi						
d) Design for direct interaction with ob	ojects that appear on the sc	reen				
c) Show technical internals from the c						
b) Allow user interaction to be interrup	ot-able and undo-able					
a) Provide for flexible interaction	in principle that allow the c	iscr to maintain control:				
2. WHICH OF THE TOHOWING IS HOLD A DESIGN	an principle maranow me i	ISEL LU MANKANI CUMUU!				

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> st<mark>arted in companies wi</mark>th 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.

