Software Engineering Question Bank eDAC May 21



Contents

Basic	66
Agile Software Development	68
UML – 1	70
UML – 2	71
Software Testing Techniques – 1	75
Software Testing Techniques – 2	76
Life Cycle Models	76
Function Oriented Software Design	77
Project Management	78
Project Planning	79
Software Process and Product – 1	80
Software Process and Product – 2	81
Requirement Engineering	
Software Metrics	82
Software Maintenance – 1	
Software Maintenance – 2	84
Software Configuration Management – <mark>1</mark>	85
Software Configuration Management <mark>– 2</mark>	86
Risk Management	
User Interface Design	88
DevOps	89

	n use-case diagrai Oval	m, what is s b) Box	system illustrated by? c) Circle		d) Triangle		
2. L	JML supports		phases of software development				
a) E	arlier	b) Final	c) Middle	d) All			
3. F	Requirement analy	/sis					
a)	Delivers a system	in a series	of versions				
b)	o) Organizes abstraction						
c)	c) Builds a bridge between user and developer						
d)) 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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	_		ves choosing a s	ystem structure capabi	3 01
satisfying require	•) C 1:	I) 	
a) Requirement	analysis l	o) Design	c) Coding	d) Testing	
6. Pick up the odd	one out of the f	ollowing			
a) Data flow diagram		o) Object ident	tification		
c) Structural decomp					
c) Structural decomp	OSILIOII	u/ L-IN diagram	13		
7 Lif			oftware system s	hould be developed an	d describe
a) Prescriptive & Des	•	•	riptive & Definiti	ve	
c) Descriptive & Pres			iptive & Intuitive		
8. The requirement	nhase consist o	f			
A) Problem analysis			ification		
C) Requirement valid		•	incation		
•	•		4) v C	D	
a) A, B, C b) 9 is a	A, B, C, D	C) A, B, D	u) A, C,	• 🛦	
Q is a	method for est	imating the so	ftware 111	177 A	
a) COCOMO b) Fur	iction Point And	alysis c) use (Lase Estimation	d) All of the above	
10. The elements of	the software a	rchitecture of a	a computing syst	tem include	
1) Software compon					
2) Class diagrams					
3) Connectors expre	ssing relationsh	ins between s	oftware compor	nents	
4) entity relationship	100	A	7.4	Λ Λ	
a) 1 & 2	b) 1 &	3	c) 1, 3 & 4	d) 1, 2, 3	
& 4	6,10	<i>A</i>	c, 1, 3 a +	4, 1, 2, 3	
α -	V /				
	are to perform	intended fund	tion with minim	um consumption of co	nputing
resources a) Efficiency	h) Robustn	ess c) Reliabili	ity d)	Correctness	
a) Linciency	b) Nobustiii	c33 C/ Nellabili	ity u)	Correctiness	
12. Ability to deal windisk crash etc.	th exceptional	conditions e.g.	invalid input, in	nproper handling, powe	er failure,
a) Efficiency	b) Rob	oustness	c) Reliability	d) Correctnes	S
13. The type of testir	g carried out a	long with codir	ag is called		
* *	_	_	_	d) Strace tacti	na
a) System testing	b) Uni	t testing	c) Pretesting	d) Stress testi	rig
14. Maintainability is	the ease with	which a softwa	are can		
a) Be corrected if a					
b) Adapted if its en					
		_	roquiromosts	ما/ ۱۸ مار	
c) Enhanced if the		_	•	d) All of above	
	いっしゃ いしょいけんいつり	" - WITH IS UP		TO SECTION OF THE CONTRACTOR O	

called



a) Corrective Maintenance	b) Adaptive Maintenance
c) Regressive Maintenance	d) Perfective Maintenance
16. RAD stands for	
a) Rapid Application Development	b) Random Access Disc
c) Random Application Driver	d) Rapid Alignment Disc
47 MILL CH CH	
-	e about Component Assembly Model
a) It is similar to the Spiral Model	
	s model is provided by object technologies
c) Candidate classes are extractedd) Its productivity is low	nom class library of developed
a) its productivity is low	
18. Which of the following is not tru	e about the context diagram?
	nctioning b) It shows major inputs & outputs of the system
c) It shows the external entities of the	
19. Data Items in a data dictionary a	re description of
a) Input data b) Data flows	c) Data stores d) All of the above
20. The ways of describing specification	tions a <mark>t differe</mark> nt <mark>levels of detail includ</mark> e
a) Requirements definition	o) Re <mark>quireme</mark> nts specification
c) Both a and b options	d <mark>) None o</mark> f these o <mark>ptions</mark>
21. Stable requirements are	
a) Requirements related to the co	<mark>re activi</mark> ties of s <mark>oftware</mark> customer
b) Requirements which are dependent	<mark>lent o</mark> n the en <mark>vironme</mark> nt where the delivered system is to be
used	
c) Both a and b options	
d) None of these options	
22. 5	
22. Functional Independence is not a	•
a) Coupling b) Modularity	c) Information Hiding d) Any of the above
23. If two modules are counled with	out exchange of data or control information then they exhibit
•	np Coupling c) Control (morniation their they exhibit
Coupling	e, control coupling a, common
24. Which of the following is a graph	nical tool for software design?
	Chart c) Decision Tree d) All of the above
25. Changes made to the software to	o correct defects uncovered after delivery is called
a) Perfective maintenance	b) Regressive maintenance
c) Adaptive maintenance	d) Corrective
maintenance	



26. Arrange the Effort	following in the	correct sequ	ence of software e	stimation a. So	chedule Estimation b.
	ost Estimation d. S	Size estimati	on		
	b) C, A, B		c) D, B, A, C	d) A. C. I	D. B
• • • • •	• • • • •		project will result in		
implemente			project iiii result ii	in the simanest	200
•	b) C	c) C++	d) Visual Ba	isic	
28. Project sche	dule can be illustr	rated using			
a) DFD and ERD	b) Bar cha	art	c) Activity chart	d) Both	b and c options
29. Most of the	project plans sho	ould include			
a) Risk analysis	b) Project orga	nization c) F	Project schedule d	l) All of the ab	ove
30 sl	hows the depend	encies betw	een the different ac	ctivities makin	g up a project.
a) PERT chart	b) Bar chart	c) St	affing Plan	d) Pi chart	
31. Chief Progra	ammer Teams are	e suitable for	· projects	£'	
_				4-03	
c) With high crea	ativity /////	d) None d	nigh modularity of these	iria	
32. Judging the called	seriousness of a	risk by evalu	ating its probability	along with its	s consequences is
a) Risk analysis	b) Risk Pr	ojection	c) Risk Estimation	d)	All of the above
,			/ / /		
33. The RMMM	plan is generally	included in t	the		
a) Feasibility Stu	dy b) F	Project Plan	c) SRS Docu	ment	d) Project Legacy
34. Invalid data	Rect() puts WM	PAINT mess	age i <mark>n messag</mark> e que	eue.	
a) True	b) False	() () () () () () () () () ()	ot Always		
35. Update Win	idow() paints the	client area.			
a) True	b) False	c) N	ot Always		
36. HINSTANCE	type variable sto	res id of run	ning application		
a) True	b) False	c) N	ot Always		
37. The WM_IN	IITDIALOG messa	ge is sent to	the dialog box prod	edure immed	iately before a dialog
box is is play	yed.				
a) True	b) False	c) N	ot Always		
38. Send Messa	ge is not directly	send to the	window procedure		
a) True	b) False	c) N	ot Always		
39. Icon is a Tex	resource.				
a) True	b) False	c) N	ot Always		

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40. Sub classing	means changing i	the behaviour (or controls.	
a) True	b) False	c) Not A	Always	
41. CALLBACK fu	nctions are called	d by the operat	ing systems.	
a) True	b) False	c) Not A		
•	ot related to calling	•	•	
a) True	b) False	c) Not A		
a) True	b) raise	C) NOT F	aiways	
43. Which of the	following operat	ions is provide	d by a common dialog	box?
a) Choosing an ic	:	b) Choosing a	network drive.	
c) Choosing a dat	tabase.	d) Choosing a	font.	
11 What is the r	orimary differenc	a hatwaan San	d Message and Post M	Sancesa
•	•		e Post Message issued f	<u>=</u>
,		•	_	·
time.	ge can only be use	ed within a wor	Ker thread, while Post	Message can be used at any
	ge can only send i	messages to the	e application thread, w	hile Post Message can send
messages to	W 40 -0 10 -0 -	ram	Viantr	7. 🔼
		ithin a Windo	ws procedure, while Po	ost Message is called from
within messa		7./		
	80 410100	7./		
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) Wind	do <mark>w Device</mark> Context	
c) Client area Dev	vice Context	d) Viev	v <mark>Device C</mark> ontext	
47. Modal Dialog	g Box is created o	n	&Mode less Dialog B	ox is created on
 a) Heap , stack	b) Stack ,	heap		
, , ,	•	•		
48. Which of the	_			
a) Menu	b) Bitmap	c) Status Bar	lcon	
49	function crea	tes model dialo	og box.	
			c) Dlg Box()	d) Unknown
a, create blaiog()	2,2	iaiog box()	c) Dig Dox()	a, omalown
50	is return type o	of window prod	cedure.	
a) Handle to the v	window	b) LRESULT	c) BOO	L
51 To subclass w	vindow's backgro	und hruch	API call is used	4
a) Set Class Long	(JSet Class()	b)	Set Long Class()	c) Settling()

52. The three classes of interface errors are:

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a) Inter face misu	use b) Interfa	ce misunderstanding	c) Tim	c) Timing errors		
53	is first mes	sage passed to windo	w procedure.			
a) WM_PAINT WM_COMM	b) WM_C	REATE C		d)		
54	function creates m	nodeless dialog box.				
	()Dialog() b)Ci	- "	c)Dia	log Box()		
	ows messages in higher					
WM_PAINT		_				
a) 1, 2, 3, 4, 5	b) 5, 4, 3, 2, 1	c) 2,3,4,5	,1 d)3,	4,5,1,2		
56. Write steps	to create standard win	dows application				
	Register Window clas	S				
2. Create wind						
3. Display Wind	dow	71 //	, 0	A		
4. Wessage loc	Shrira	ım Ma	ntri			
a) 1, 2, 3, 4, 5	h) 2 3 4 5 1	c) 3, 4, 5, 1	2 d) 4	5 1 2 2		
a, 1, 2, 3, 4, 3	5,2,3,4,3,1	0,3,4,3,1	, 2 4,	3,1,2,3		
-	orogram should have a nd Translate Message(
a) True	b) False	c) Not always	7 /	1		
	sed to retrieve the dev	rice context handle for	r the windows	client area when		
	WM_PAINT message.	A November 1				
a) True	b) False	c) Not always				
· ·	e key is pressed then W be stored in Parma.	'M_CHAR message w	ill be generated	and the ASCII code of		
a) True	b) False	c) Not always				
	•	-	_	OOWN messages are f x and y coordinates of		
a) True	b) False	c) Not always				
61. Predefined o	controls send WM_COM / message.	MMAND message wh	ereas common	controls send		
a) True	b) False	c) Not always				
62. A Device Co	ntext is a GDI structure	, which deals with te	xt and graphics.			
a) True	b) False	c) Not always	.			
		•				

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



a) True	b) False	c) Not always
64. A Clipboar True b) F		er information between applications or within application. a)
65. Win Main	is an entry point fo	r windows application.
a) True	b) False	c) Not Always
66. Menu is G	DI Object.	
a) True 67. WINAPI is Procedure		c) Not Always ch explicitly calls Operating System to run Window
a) True	b) False	c) Not Always
68. When fund	ction key(s) presse	d on the keyboard that time WM_KEYDOWN message is generated.
a) True	b) False	c) Not Always
69. LRESULT is	s a return type of D	ialog Procedure.
a) True	b) False	c) Not Always
70. Set Pixel is	used to draw a pa	rticular p <mark>ixel with</mark> a <mark>particular colour</mark>
a) True	b) False	c) Not Always
71. GetROP2 () is used to get the	current drawing mode.
a) True	b) False	c) Not Always
72. Palette is a	an attribute of a de	v <mark>ice cont</mark> ext.
a) True	b) False	c) Not Always
73. Windows	TIMER is not an inp	ut device.
a) True	b) False	c) Not Always
74. In MDI app	olication the defau	t window procedure for main Window is Def. WindowProc ().
a) True	b) False	c) Not Always
75. The WM_I box is disp		ge is sent to the dialog box procedure immediately before a dialog
a) True	b) False	c) Not Always
76. In MDI app	olication child wind	ows are created by mainframe windows.
a) True	b) False	c) Not Always
77. Cursor is a	GDI Object.	
a) True	b) False	c) Not Always



78. Sub Classing n	neans changing the I	behaviour of the contro	ils.	
a) True	b) False	c) Not Always		
79. Colour Dialog	box is a common dia	alog box.		
_	b) False	=		
,	,	,		
		re to receive double cli in a window		age that time, you must before calling
		BLCLKS c) CS_DB		
CS_DOUBLECLICK				
81	is used to	play the metafile.		
a) Play Meta Play I		b) Open		
82. To use the win	ndows common con	trols always include		.h header
a) COMMONCTL	b) COMO	CTL c) COMN	/IDLG c	d) COMMCTL
	01 .	7.//	/	
83. You can obtai	n the state of Shift k	eys by using	fun	nction.
a) Get Key State()	b) Key ge	et Value() c)	Get State()	d) Get Status()
84. Entry point fu	nction of a DLL is			
a) Main()	b) DLL Main()	c) Start DLL()	d) Rur	n DLL ()
85.	is a function f	or creating a Thread.		
			ad Instance ()	d) Create Thread (
)		2 ()		(
•				
86. Pick up one of	f the testing method	s given below that is pa	art of white-box	testing:
-	_	Boundary value analysi		_
87. For drawing a	n Icon on client area	of window	function is	used.
		c) Draw Icon(
OO Varrage areas	la siaal famt b	lling which of the falls.		
	=	lling which of the follow	=	cost() d) Now Font
()	b) Create	eFontdirect() c) (reaterontindir	rect() d) New Font
89. Dynamic Linke	ed Library is loaded i	n the memory at		
a) Static time	b) Run time	c) Load Time	d) Con	npile Time.
90. Menu is				
	b) Resource	c) Picture	d) Iten	n
91 Which ADI cal	l is used to check wh	at type of data availab	le in clinhoard	
a) Is Clipboard For		· ·	board Contain	Data ()
•		d) Set Clipboard Da		(/



92. Following o	otion is not a map	ping mode.			
a) MM_ISOTROI	PIC b) M	IM_TEXT	c) MM_B	BITMAP	d) MM_HIMETRIC
93. Following is	not a type of dev	rice context			
a) Screen Device	Context	b) W	indow Device C	Context	
c) Client Area De	vice Context	d) Vie	ew Device Cont	ext	
94. Following is	not a raster opera	ation.			
a) R2_COPYPEN		b) R2_XOR	COPYPEN		
c) R2_NOT		d) R2_YES			
95. Every instan	ce of a running pr	ogram is	0	of virtual ad	dress space.
a) 4 GB	b) 2 GB	c) 6 GB	d) 64 MB	3	
96. Default size					v
a) 2 MB	b) 1 MB	ram	c) 32 MB	ntri	None of the above
97 Following is	not a bitmap rela	ted API call	IVALUA		
a) Paste Bit ()	V		etch Blt ()	d) Pat E	B <mark>lt (</mark>)
98. Windows M	essage contains fo	ollowing info	rmation.		
a) Visible proper	-	/ /-	ption of windo	w	
c) Handle of win	· V		oot class of a wi	7 8	
00	is a lowest pric	ority mossage	a in Windows D	rogrammin	og (Min 22 Programming)
	is a lowest pric b) WM_COMMAN	/ /	c) WM_CHAR	li T	g. (Win 32 Programming) TIMER
	V /				
100. SetROP2() True	function is used to b) False	o change the	Raster Operati c) Not Alw		ice Context. a)
101. Create Enh	Meta File returns	s handle of th	ne metafile a) ⁻	True	b)
False	c) No	ot Always			
102. Clipboard	can store 'n' no of	formats at a	time.		
a) True	b) False		c) Not Al	ways	
103. If 4 windo	ws are running in	a single appl	ication then the	ere are 4 N	lessage Queues.
a) True	b) False		c) Not Al	ways	
104. With Crea	te Window		and		functions are
used to di	splay the window				
a) Display Windo	w(), Update Wir	idow()	b)	Show Wind	dow(), Dialog Box()
c) Show Window	() . Update Wind	ow()	d) Show	Window () . Repaint Window ()

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		=			s which provi	des funct	tion to user a	application to
-	132.DLL	b) KERNEL	he windows 32.DLL		SER32.DLL	d) V	VIN32.DLL	
106	The laver h	etween the	annlication	and differe	nt types of ha	rdware		
	olication La				c) Data Laye		iyer	
407	Tl N.4		renta a stalan a		· ·		a alta at ta	
	The Messa A RBUTTO	_	if the right h		on is pressed i CRBUTTONDC		n-client is	
•	_	TONDOWN		· –	UTTONDOWN			
C) VVIV	1_1 1 CINDO1	TONDOWN		u, ws_nb	31101100111			
108.				_				window style?
	a) 1DB_DE	BCLK b) CS_	_DBLCLICK	c) CS_D	BLCLKS d) CS	_DBLCLK	,	
109.	Which me	ssage helps	in detecting	mouse mo	vement and f	inding m	ouse cursor	position
	1_MOUSEN		_	b) WM_M		J	·	•
c)) WM_ONN	JOUSEMOV	E 0	d) None c	f these	, .	A	
			rıra	H H W A	vian	tri		
					window send			
a) WI	M_COMM <i>i</i>	AND	b) Send Dlg	Item	c) WM_NOTII	FY	d) WM_ACT	IVATE
111.	Which fund	ction will tes	t whether th	ne message	is the dialog	box or th	e window?	
	Message()				end D <mark>lg Mess</mark> a			
c) Trai	nslate Mes	sage()		d) Is	Dialog Messa	ge()		
		1						
			a modal dia	/ -	24 110	1)		D ()
a) Cre	ate Dialog()	b) Dialog E	sox() c) Do	Modal()	a) C	Create Dialog	(Box()
113.	Which fund	tion creates	a modeless	dialog box	?			
a) Cre	ate Dialog()	b) Do Mod	al()	c) Dialog Box	x()	d) Create I	Dialog Box()
111	N 4 - D:-	a a Daniia da		-11:	. f at: a 2			
		og Box is de:) Destroy Di	stroyed by calog()	_	n runction? nd Dialog Box(`\	d) End Mo	ıdal()
a, Liio	i Dialog() i	, Destroy Dr	alog()	C) Li	a blalog box(.)	a) Liia Wio	adi()
115.	Which fund	tion sends a	message to	controls ir	n a dialog box	?		
a) Sen	d Dlg Item	Message()		b) Se	end Dialog Me	essage()		
c) Sen	d Dialog Ite	em Message	()	d) no	one of these			
116	The registe	er() function	takes a noir	ntar to the	Windlass stru	cture as	a narameter	a)
110.	_	False	takes a poil	iter to the	vviiiuiass stru	cture as	a parameter	aj
117.	-	R is a combir	nation of WN	M_KEYUP a	nd WM_KEYD	OOWN. a	a) True b)	
	False							

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

b) False

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	ne ID value for essage. a)		•	sed by Param Parame	ter with th	e	
120. In	which mess	age it is bette	er to initialize	all the controls with i	in the dialo	g box.	
a) WM_0	CREATE	b) WM_II	NITDIALOG	c) WM_INIT	d)	WM_COMMA	AND
Specifie	ed File	b) C	reate Meta F		ormat Met	a File to a)	
c) Copy I	Meta File	d) C	opy Data Ge	t Meta File			
122. Tra a) True	anslate Mess	age Detects a b) False	a Keyboard a	ction that translates t	o an ANSI (Character	
123. Sci	reen Coordir	nates are pixe	ls measured	from the upper left co	orner of the	e window's clie	ent area
a) True		b) False	70.00 70.00	March	🛦		
124. Se	elect Object 1	function obta	ins an object	from Device Context	a) True	b) False	
125. Cr	reate pen Re	turn handle t	o Old Pen a) True	b) Fa	lse	
126. W	hich functio	n use to copy	file fr <mark>om on</mark>	e Device context to ar	nother		
127. De	evice Contex	t Bit Create C	Compatible D	c Copy Copy Bit			
128. Ha a) HBITM	andle to BITI IAP	MAP is b) HACCE		c) HDC d) H	НВМР		
129. To	Create Thre	ad Function u	ısed is				
a) Begin	Thread	b) Create	Thread	c) do Thread	d)	Create	
	'M_CREATE I rue b) Fal		enerated afte	er Window is Displayed	d a)		
	ne Thread Co	ontrol Panel is	s capable of p	performing the followi	ing		
-	g Thread Prioning Thread	ority		b) Suspending a Thre d) Terminating a Thre			
132. Wl a) 15		re used to Se	et thread prio	rity d) -1			
•	·		•	, ertv u have to add in i	ts resource	a files?	
	ALICHOV A IIII		- *************************************	CICY OF HOVE IN AUDITIO	こっしいいひはしに		

c) WS_VISIBLE

b) WS_SHOW

a) WM_SHOW

d) WS_DISPLAY



134. A Mouse Click on	Menu Bar genera	ites:	
a) WM_COMMAND	b) WM_NC	OTIFY c) WM_CHAR	d) WM_MENUCLICK
135. Change in the siz		_	
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	font currently selected in the Do
137. Begin Paint() Pre	pares the window	vs client area for painting.	a) True b) False
138. Rectangle functi	on takes :		
a) 2 Parameters	b) 5 Parameters	c) 4 Parameter	rs 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.	7	1/	· A
a) True	b) False	<u>m Mant</u>	rl
140. To halt the execu	ition of a thread:		
a) Kill Thread()		ad() c) Terminate Thread(d) None of These
141. The following are			
a) Analysis b) Desig	n c) Testing	d) All of the above	
141 The SDLC Model	most suitable for	large projects with clear kn	owledge & priority of
requirements is	inost suitable for	large projects with crear kin	owiedge a priority or
a) Spiral Model	b) Increme	ental Model	
c) Waterfall Model	d) Prototy	ping Model	
142. Which of the follo	owing is not true a	about the Waterfall Model	?
a) It is suited for small	=	b) It does not consid	
c) It gives efficient staf	f utilization	d) It needs clarity o	of requirements at start.
143. Prototyping in so	ftware process ma	ay involve	
a) Throw - away protot	yping	b) Evolutionary	
c) Both a and b option	S	d) None of these	
144. Which of the follo	owing model may	require largest deploymen	t of manpower a)
Incremental Model	•	Vaterfall Model	
c) Component Assemb	ly Model	d) RAD Model	
145. The majority of the	ne lifetime of a pro	ogram is spent in the	phase a) Maintenance
	· ·	esting	



146. In Boehm's s	spiral model, each loop i	n the spiral represents	of the software process a)
Phase	b) Design	c) Documentation	d) None of the above
147. Which of the	e following is seen in the	DFD but not in the Conte	xt Diagram
a) Data Sources	b) Data Flows	c) Data Stores	d) Users
148. Data flow car	nnot take place betweer	ı	
a) A store & a pro		ernal entity & process	
•	ernal entity d) Pro	• •	
149. "Balancing o	of DFD" is means		
	of inputs & outputs at	various levels	
•	process into smaller su		
c) Labelling of a		•	
	flows to take place only	to or from processes	
			- A
150. A data flow	diagram is not a	in March	7. i A
a) Logical model o	f a system	b) Good guide	to a system
c) Representation	of the physical system	d) All of these	options
454 DED : 4-3'-1			
	on tables, decision trees		. —
a) Requirements ac) Software Desig		o) Requirements modelling d) All of the above	8
c) software besig	"	a) All of the above	
152. Which mode	el used to show data pro	cessing at different levels	of abstraction from fairly
abstract to fa			, a,
a) Semantic Data		odel c) Data Flow Models	d) Service Usage Models
	V /		
153 Mo	dels describe the logical	structure of the data which	ch is imported to and exported
by the system	1.		
a) Object	b) Semantic data	c) Data flow	d) None of the above
154 Which of the	o following is true about	E. D. Diagrams 2	
	e following is true about object-relationship pairs	-	licates cardinality of relationships
•	dality of relationships	•	the above
c) it malcates mod	idity of relationships	u) All Ol (ine above
155. Which of the	e following is not a chara	cteristic of a good SRS do	cument?
a) Unambiguous	b) Verifiable	c) Redundant	d) Consistent
156. Find the odd	l one out		
a) Axiomatic Spec	ification l	o) Algebraic Specification	
c) Z Specification	(d) Data Flow Diagram	
457 Miletele te il	manak walastasta C-	of cohories form the C. H.	ina antion-
		of cohesion from the follo	= -
a) Sequential	b) Coincidental	c) Temporal	d) Communicational



15	8. The external interface (design process sh	ould be	a	1)
De	veloper centered	b) User o	entered		
c) A	dministrator centered	d) Manage	ment cent	ered	
15	9. Which of the following methodologies	is true with respe	ct to funct	ion oriented & o	bject oriented design
a)	They vary in the basic abs	tractions they use	9		
	They vary in the way state				
c)	They vary in the way fund	tions are grouped	ł		
d)	All of the above				
16	0. In which of the followir	ng phases of a use	-case drive	en process do yo	u think use cases have a
	role? a) Requirements ca	apture b) Analysis	c) Design	d) Implementation	on e) Test
a) A	a, B & C b) A,	B, C & D	c) B & D	d) A, B, C	C, D & E
16	1. Which of the following	is NOT true about	t comment	:S	W
			-		A
b)		code at crucial pl	aces only	anırı	
c)	They should be used to	document change	es to the co	ode	
d)	They add up to the LOC	\ / / / / / / / / / / / / / / / / / / /			
ω,	mey dad up to me 200	SIZE OF THE SOUTH			
162	. Use of coding standards				
	Eases the task of integra		nodulos		
	Enhances the software r				
	Enhances reusability of t		LITE		
	All of these options	ille software			
•	•	V /			
16	2 is a p	rogramming meth	nod which	combines data a	nd instructions for
	processing that data into				
a) N	Nodular programming		b) Top do	own design	
c) C	bject oriented programn	ning	d) Struct	ured programmii	ng
16	3. A test case design tech	nique that makes	use of a ki	nowledge of the	internal program logic
	Black Box Testing	b) White Box Te		c) Unit Testing	
u, L	nack box resting	b) white box re	Jung	c) Office resting	a) None of these
16.	4. Black box test cases ca	n he derived from			
		owchart	c) SRS Do	cument	d) Pseudo code
aj 3	bource code b) in	Swellart	c) sits bo	cament	u) r seudo code
16	5. Which of the following Analysis?	is true about Bou	ndary Valu	ie	
٦)	It is an approach to design	aning black hov to	st cases		
aj	it is an approach to design	Simile plack box te	or cases		
b)	It is complementary to E	quivalence Class I	Portioning		
c)	It gives test cases based	on the boundarie	s of the ed	uivalence classe	s d) All of the above

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166. Cyclamate complexity is calculated from a) Data Flow Graph b) Structure Chart c) Control Flow Graph d) All of the above 167. Which of the following is true about McCabe's Cyclamate Complexity of a Program a) It is an indicator of the structural complexity of a program b) It gives the maximum no of independent paths in a program c) It is calculated from the no. of edges & nodes in the Control Flow diagram d) All of the above 168. Effective Software Project Management focusses on a) People b) Problem c) Process d) All of above 169. Which of the following is generally not a part of the SPMP document? a) Configuration Management Plan b) Quality Assurance Plan b) Risk Management Plan d) Requirements Elicitation Plan 170. Conversion of Adjusted Function Point Count to LOC count is dependent on b) Project Duration d) Cost Drivers a) Team Size c) Programming Language 171. The critical path of PERT/CPM chart cannot be a) The path with the longest duration b) More than one unique path c) Path on which any delays are allowed d) Path with same earliest and latest starts for all activates 172. Which of the following are Software Risk Components d) All of the above a) Performance b) Cost c) Schedule 173. The total float for an activity is a) The total duration of the activity b) The difference between the earliest finish time and earliest start time c) The difference between the latest finish time and the earliest finish time d) The difference between the latest finish time and the earliest start time 174. According to the staffing pattern of a software project follows the Rayleigh-Norden curve and peaks during the b) Coding & Unit testing a) Detailed design c) Integration Testing d) System Testing 175. Arrange the following activities in Risk Assessment in the correct sequence a. Prioritization b. Identification c. Analysis 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 meb) Developing a cultu		ather than judgment	al methods	
c) Performing multisc				
d) All of the above	raree estimations			
u) All of the above				
177 Under SCM the va	rious SCIs are strictly	maintained		
a) By their respective a	uthors	b) By the appropr	iate team	
c) In a central project d	atabase	d) All of the above	9	
178 Cleanroom Softwa	are Development prod	cess is based on		
a) Formal Specification	b) Static Verifi	cation c) Statistical ⁻	Γesting	d) All of the abov
179. Which one of the	following is method i	s not used in describi	ing complex sys	tem process
a) Decision table	b) Structure English	c) Finite auto	omata	d) Binary tree
180. c from the relatio	nship			
a) Productivity=KLOC/բ	erson-month	b) Productivity=KI	LOC/defects	
c) Productivity=KLOC/L	ariran	d) Productivity=Kl	LOC*person-mo	onth
181. The goal of coding				
a) To reduce the cost of	The state of the s	To reduce the cost of	f maintenance	
c) Both a & b	d)	None		
182. Bottom of Form				
Top of Form				
Broad design of modul	les & their rel <mark>ationshi</mark>	ps is called		
a) External design	b) Detailed design	c) Architectu	ıral design	d) Process design
183. The choice of the depends on	Software Developme	nt Life Cycle Model to	o be followed fo	or a project
A) Initial Clarity of Requ	uirements	B) Size of the Proje	ect	
C) Time Frame of the Pi		D) Clarity on Techi		
a) A, B & C only				
184. The SDLC Model r	most suitable for sma	projects with clear	requirements is	i
a) Spiral Model		el c) Waterfall Mode	•	ototyping Model
185. The Linear Seque	ntial or Classic Life Cy	cle is also called		
a) Waterfall Model	b) Incrementa	l Model c) Spiral mo	del d) Prototyp	oing Model
186. The waterfall mod	del of the software pr	ocess considers each	process activity	y as a
a) Separate	b) Discrete c) E	Both a and b options	d) No	one of the above
187. Which of the follo	owing is not a feature	of RAD		

a) Well understood, constrained & modularizable requirements



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

· ·		ius of the spir	al at any point re	-	a accompant where	
a) The level of ris		oot till thon	b) The progress	made in the	e current phase	
c) The cost incu	rred in the proj	ect un then (d) None of these			
189		l developmen	t software and sr	nall, highly t	rained teams of	
a) Prototyping		RAD	c) Coding	d) M	lodeling	
, , , , , , , ,	•		2, 222 8	- /	0	
modules is calle		_	re & control relat) High Level Desig	=		
191. Designer	The second second	of and of artists and of a	gly and we cohesive		designs	
c) Cohesive, cou	pled d)	Coupled, coh	esive			
192. Use of glob	oal data areas or	global va <mark>riab</mark>	les may lead to			
a) Stamp Coupli	ing b)	Commo <mark>n Cou</mark>	pling			
c) Content Coup	ling d)	Control Coup	ing			
193. Function o	oriented design _l	oroce <mark>ss consi</mark> s	ts of			
a) Data Flow Des	sign b)	Structural ded	composition			
c) Detailed Desig	gn d)	All of the abo	ve			
194. Transform	Analysis perform	ned on a DFD	identifies the			
a) Afferent Brar	nch b)	Efferent Bran	ch			
c) Central Transf	orm d)	All of the abo	ve			
195. The two qu		e building the	right product?" &	&"Are we bu	ilding the product rig	ght?'
a) Verification or	nly		b) Validat	tion only		
c) Validation & \			d) Verific x testing method		ation respectively	
a) Statement cov	erage -	b) Error gu	essing			
c) Path coverage		d) Conditio	on Coverage			
197. A Test case	e includes					
a) Input b) E	expected output	c) Informa	tion of function ι	under test	d) All of these opti	ons
198. A stub is a	dummy verion (of the	module of t	he module ເ	ınder testing	
a) Superordinate		Subordinate	 c) Coordir		d) All of the above	



199. A driver	is a dummy ve	ersion of the $_$	mod	lule of the	module	under testing	a)
Superor	dinate	b) Subordina	ate c) Coo	ordinate	d)	All of the abov	/e
200	exercises t	he system bey	ond its maximu	m design lo	oad		
a) Thread test	ing:	b) Stress Te	sting c) Back to	back testin	ng	d) All of the ab	ove
201. Present	ing the same t		nt versions of th	=		pare outputs is	called
a) Thread test	ing	b) Stress Te	sting c) Back to	back testir	ng	d) All of	the above
	_	-	of Project Plan?				
a) Risk Manag	ement Plan	b) Pe	rsonnel Plan				
c) Project Me	ntoring Plan	d) So	ftware Architect	:ure Planni	ing		
	of the following	=	o projects of sar	ne categor	ry with t	he same estim	ated LOC
	_						
-			ojects will be sar		1	ame LOC	
•		B/* H B/* M H	ays be the same		11/2 11 11		
	97		e the same for b				
a) Only A is t	rue. b) Only	A & B are true	c) Only C is tru	ie d) Neith	her A, B	or C are true.	
204. In COCC)MO terminolo	gy a project v	vith software bei	ing strongl	y couple	ed to complex I	nardware
			procedures is ca	/-			
a) Organic	b) Semide		c) Embedd	- ,		d) Application	
a, a.ga	3,00		/ 5, = 1110	7 /		а, г., рр. повител.	
205 The mir	nimum time re	quired to finis	h the project ca	n he estim	ated by	considering the	e
	ne activity grap	V-	ar the project ca	The Column	ated 5,	Considering th	<u> </u>
a) Shortest		ongest	c) Average		d) SP1	Г	
226 257/0		V /					
	PM cannot be	usea tor					
a) Scheduling			•	ring & Con	-	=	
c) Optimizing	Resource Utili	zation	d) Quality	control of	f produc	cts	
207. Democr	atic team stru	cture is suitab	le for projects				
a) With strict	deadlines		b) With clearly k	known requ	uiremen	nts	
c) With resea	rch orientatio	n	d) None of these	е			
208	ensures	that a set pro	cedure is follow	ed to make	e any ch	anges to the so	oftware
a) Configurat above	ion Identificat	ion b) C o	onfiguration Con	ı trol c)	Base lir	ning d) All of t	he
209. Configu	ration Manage	ement is					
a) Framework	activity	b) Umbrella	activity				
c) One time a	ctivity	d) None of t	he above				



,	ithmetic System Engin	•	None of the above	re Engineering
211. Requireme	ent phase is usually do	ne by		
a) System Analy	st b) Syster	n Administrator	c) System Engineer	d) All
	of the following is not	· ·	rameter of function poin	t a)
c) Number of file	•	er of output data		
213. Cohesion is	s the concept which tr	ies to capture this		
a) Intra-Module	b) Extra-Modu	le c) Inner-N	Module d) Outer-M	1odule
214. Functional	approach is also know	n as		
a) Glass box test	ing b) Black	box testing		
c) Input box test	ing d) Outpu	ıt box testing		
change in re a) Inheritance, E c) Encapsulation 216. Which of t applications a. Clearly define b. concentrate e c. Analyze and i	equirements doesn't re incapsulation , Polymorphism he following steps do y ? e initial requirements of earl development efformanage risk throughou	b) Inheri d) Polym you think develope of the system rts on modeling in ut the developmen	tance, Polymorphism orphism, Abstraction ers should take to create aplementation mechanism process	efficient compact
	ware testing until afte			
a) a, c	b) a, b	c) a., b, d	d) a, b, c	
217. Which of t	he following elements	combine to form	OOAD method	
a. Notation	b. Diagram	c. Proces	d. View	
a) a, c	b) a, b	c) a, b, d	d) a, b, c	
To model system b. To provide a c.To support sm	he following are aims on using OO concepts process for software deall-scale and large-scale insight into implemer	levelopment ale analysis and de		
a) a, c	• .	a, b, d	d) a, c, d	
•	nd of the design phase		ould be allocated to sour	rce code
a) Use cases	b) Relationship	os c) Models	d) Classes	

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220. What do you think is the first step you should take in designing any project? a) Design a prototype
b) Create the test cases
c) Define problem domain and produce problem statement
d) Draw up a plan for entire project
221. Which of the following best describes what the problem domain is? a)
Kinds of resources available to development team
b) Surroundings in which system operate
c) Set of all functionality required of a system
d) List of technical details needed to implement project
222. If you are finding hard to identify the name of class and to write definition for it. What thing you should do?
•
a) Ignore class completely
b) Do more analysis to get a better understanding of what is involved in the class
c) Write a definition for the class even if it is not very good
d) Make it a friend class of some other main class
223. Which of the following statements are true of use cases and use case models? a.
Functionality of a use-case has to be complete from start to finish
b. Use case provide developers with classes and operations
c. Use cases outline functionality of the system
d. Use case models can be used to test the system
a) a, b, c b) a, b, c, d c) a, c, d d) a, c
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
a, and a, and a, and a, and a
228. Incremental model
a) Delivers a system in a series of versions
b) Works with encapsulation and inheritance to simplify flow of control
c) Builds a bridge between user and developer

d) Uses experimental software to better understand user requirements

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229. Prototyping mode	el			
a) Delivers a system i	n a series of version	ons		
b) Builds a bridge bet	ween user and de	veloper		
c) Uses experimenta	l software to bett	er understar	nd user requirements	3
d) Works with encaps	sulation and inher	itance to sim	plify flow of control	
	• ,		engineers re-engine of a computing syster	ering is a type of software ns 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 milestone a) DFD and SRS c) Feasibility study and	hriva	m A	wo parts b) Interface design and d) Requirements and	
232. Which is not par	t of testing?			
a) White box test	ting b) Bla	ack box testii	ng c) Inner to	esting d) Gorilla testing
233. Which is not par High level design c) Mid-level design	n b) low level <mark>des</mark>			
234. Which software o	•	•	_	
a) Water fall model	b) Spiral m	odel	c) Incremental model	d) Object model
235. Largest time is sp			development phase?	
a) Testing	b) Enhancement	(c) Bug fixing	d) Analysis and design
236. Simple SDLC conta) Requirements, andb) Analysis, design, inc) Analysis, design, ind) Requirements, and	alysis, design, imp nplementation, te nplementation, te	sting, deploy sting, mainte	ment enance	
237. DFD is not a				
a) Logical model of sysc) Representation of ph			o) Good guide to a sy d) All of the above	stem

238. Productivity metrics

a) Focuses on the output of the development process.



b) Focuses on the characteristic	s of the softwa	re.		
c) Provide indirect measure.			d) A	II.
239. Which is not a type of maint	tenance?			
a) Adaptive b) C	orrective	c) Perfective		d) Obsolescence
240. Adaptive Maintenance is				
a) To improve the system in son	ne way by char	nging its basic fund	ctionality	
b) The maintenance due to cha	nges in the en	vironment		
c) The correction of undiscovere	ed system erro	rs		
d) None of the above				
241. Which of the following active requirement Specification?	rities involves o	hoosing a system	structure ca	apable of satisfying the
a) Requirements Analysis	b) Design	c) Codir	ng	d) Testing
242. Reliability in a software syst	em can be ach	ieved using the fo	llowing stra	tegies, EXCEPT a)
Fault avoidance b) Fa	ault tolerance	74 //		
b) Fault detection d) F	ault rectification	on Mani	tri	
243. The Software Development	Life Cycle cove	ers activities from		
a) Feasibility Study to Installation		b) Requireme	ents Phase t	to Testing
c) Requirements Phase to Mainte	nance	d) Project Init	tiation to Sc	oftware Retirement
244. Identify the true statements	ahout using a	process for softw	are develon	oment. a)
Processes usually divide software	7 5		are develop	ment. aj
b) Processes provide guidelines f	A 1		evelopment	t c)
Processes are used o			7	A
1) a and c 2) a and b		3) a, b and d	4) a, c and d
245. Process visibility is enhanced	d by			
a) Defining clear cut phases	b) Producing docur	nents relate	ed to each phase
c) Conducting reviews & checks	C) All of the above		
246. Which of the following activ	rities is not con	sidered as "Umbro	ella Activity	" a)
S/W Quality assurance		b) Software D	esign	
c) S/W configuration managemen	t c	l) S/W Project Mo	nitoring & C	control
247. What is the primary purpose	e of the first st	age of software ar	nalysis and o	design? a)
Determining system deployment	b) V	Vriting code		
c) Capturing requirements	С) Building GUIs		
248. SDLC starts with	stage			
a) User Requirement and Analysi	s b) Deployment	c) Testi	ng d) Design



whereas the	takes an approac	in to the system, ignoring	tils inner workings
	approach, making d	ecisions on how the mod	el will be implemented in
code	approuch, making a	ceisions on now the mod	er wiii be implemented in
a) White box & Black box	b) Black box 8	& White box	
	Jp d) Bottom-Up		
		derstanding of the systen	n and its shortcomings
-	 portunities for improven	= -	_
a) Feasibility study	b) Systems a	nalysis	
b) c) Systems definition	d) Systems si	tudy	
251. The last step in Sys	tem Development Life Cy	vcle is	
a) Analysis	b) Implementation	c) Testing	d) Maintenance
252. The pl	nase of the systems life c	ycle contains periodic eva	aluations and updates of
the system			X.
preliminary	A TATE OF TAR	ms analysis 1111	
a) Investigation	b) System		
c) Systems implementati	on d) <mark>Syste</mark>	ms maintenance	
		11	
- Vo		verified against the requi	
a) Analysis	b) Design	c) Testing	d) Implementation
254. The type of softwa	re maintenan <mark>ce which</mark> is	done <mark>to add n</mark> ew feature	s to the product is called
a) Corrective Maintenar		Maintenance	
c) Regressive Maintenan	ce d) Perfe	ect <mark>ive Main</mark> tenance	
255. Because of the case process is known as	cade from one phase to a	nother, the model of sof	tware development
a) Evolutionary model	b) Formal mod	del	
c) Waterfall model	d) None of the		
256. Prototype may be u	sed for		
a) Risk Reduction	b) Requireme	nts Elicitation	
c) User Interface Design	d) All of the a	bove	
257. RAD Model is high	speed implementation of	f	
a) Waterfall Model	b) Spiral Model		
c) Prototyping model	d) Component Asse	mbly model	
258 means t	o build a model that can	be modified before the a	ctual system is installed
a) Maintenance above	b) Prototyping	c) Implementation	d) None of the



259. A requirement n	hay be a description	on of			
a) Functionality to be p	rovided	b) Constraint of	on the software		
c) External interface		d) All of the al	oove		
260. DFD gives idea a	bout flow of	& flowcha	art gives idea of th	e flow of	a)
Processes, decisi	ions b) (Control, data	c) Logic, contr	ol d) Data, co i	ntrol
261. Data Models do	not consider				
a) Attributes of the dat	a object	b) Relati	onships between	data objects	
c) Operations that act of	on the data	d) Any o	f the above		
262. Notations used to details of a softwa Structure Charts					essing
a) I and II Only	b) III Only	c)	, II and III	d) None of the al	oove
263. Formal specificat	ion language cons	sists of		<u> </u>	
a) Syntax	b) Semantics	c) Set of	relations	d) All of the above	ve
264. The software arc	hitecture is best r	epresented by			
a) Context Diagram	b) Flow Ch		Structure Chart	d) Data Flow Diag	gram
265. Using	_ a programmer o	<mark>can det</mark> ail the lo	g <mark>ic of the</mark> progran	1	
a) Pseudo code	b) Softwar	e c) Conte	<mark>ext diagr</mark> am	d) Data flow diag	ram
266. Which of the follo	owing is not true a	about a flow ch	art? a)		
It shows the flow of co	- W				
b) It is a tool for detail	ed design				
c) Data interchange is	not represented				
d) It clearly separates	various modules	of the software	e		
267 involves	modeling a syste	m as a set of in	teracting function	al units. a)	
Object oriented decor	nposition b)	Procedural deco	omposition		
c) Functional decompo	sition	d) None of the	e above		
268. Typographical er	rors and/or incor	rect use of the	programming lang	tuage is referred to	as
a) Logic errors		rs c) R		d) A bug	
269. Testing of softwa	are falls after	stage.			
a) Designing	b) Implementati	on c)	Deployment	d) Coding	
270. Changes made to	the software to a	accommodate c	hanges to its envi	ronment is called	a)
Perfective maintenand	ce	b) Regressi	ve maintenance		
c) Adaptive maintenan	ce	d) Corrective r	naintenance		



271. Major changes m				•
a) Perfective mainten			egressive maintenar	nce
c) Adaptive maintenan	ce	d) Correc	tive maintenance	
272. Function Point C	ount is dependent o	n		
a) Platform & Technolo	ogy	b) Team	Size	
c) H/W & Software Res	sources	d) Featui	res & Functionalities	
	ninology a project wi developed is categor		el of staff experience	& part familiarity with
a) Organic	b) Semidetad	ched	c) Embedded	d) Application
274. The value of COC	COMO cost driver att	tribute for hig	her than average Pro	ogrammer Ability will
a) Greater than 1	b) Equal to 1		c) Less than 1	d) None of
these 275 And _	are graphical no	otations which	n are used to illustrat	e the project schedule.
a) Bar chart and DFD	Louiser	b) El	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 ca	tegorization b	ру	
a) Risk Components	b) Risk Impa	ct c) Both a	and b options	d) None of the above
278. Risks arising out	of frequent change i	requests are b	pest mitigated by a)	
User characterization	b) Strong SCI	M		
c) Multisource estimat	ions d) Pres	cheduling key	<mark>, pers</mark> onnel	
279. Automated SCM	tools help solve pro	blem of		
a) Inconsistencies of So	Cls	b) (Concurrent access to	SCI
c) Instability of develop	oment environment	d) <i>i</i>	All of these options	
•	=		· ·	table are considered at
a) Level 1	b) Level 2	c) Level 3	d) Lev	el 4
281. In which of the fo	ollowing phases of u	se-case drive	n process do you thir	nk use cases have a
role?				
a. requirement capti	ıre			
b. analysis				
c. design				
d. implementation				
e. test				
a) a, b, c	b) a, b, c, d	c) b, d	d) a, b	, c, e
202.6				
282. Sequence diagra	•	\ 0.4		
a) Organization of obje	cts b) Messages o	n time scale	



c) Conceptual design	d) Se	et of actions	
283. Analysis takes pl	ace from	perspective and design take	es place from
	b) User, developer	c) Developer, user	d) Developer, developer
	phase of SDLC aims are velopment	at ensuring software produc c) Testing	et is as per requirements. d) Deployment
285. Polymorphism _			
a) Organizes abstrac			
, •	tween user and develor	per	
	in a series of versions		
		ce to simplify flow of contro	l
286. Spiral model inc	orporates risk managem	nent	
a) True	b) False	<i>Mantri</i>	
287. Storage manage	ment is not a part of ve	rsion management	
a) True	b) False		
288. Data flow diagra	ms are part of design pl	nase of SDLC	
a) True	b) False		
289. Which is an iteraconstructing software		hich the <mark>require</mark> ments are tr	anslated to "blueprint" for
a) Testing	b) Requir <mark>ement an</mark> aly	sis c) Design	d) Maintenance
290. What manifests algorithm is	in the patterns of choice	es 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 service will satisfy	_	oval of defects before relea gic actions to provide confid quality	
292. Which of the fol process?	lowing types of test plar	ns is most likely to arise fron	n requirement specification
a) System integrationc) Sub-system integr		b) Acceptance test pd) Module test plan	lan
293. In project planni	ng first thing is		

PG DAC Feb 20 Software Application Development Tools & Techniques



a) Set objective or goa	ı	b) Deve	lop strategies	and policies	
c) Decision making		d) Find (out requireme	ent	
294. Which of the follo	owing is not part	t of spiral r	nodel?		
a) Planning		b) Custo	mer commur	nication	
c) Project documentati	on	d) Engin	eering		
295. Pick up one of the	e testing metho	ds given be	low that is pa	art of white-box	testing a)
Euivalence partitioning	g b) Bound	ary value a	nalysis		
c) Basis and testing	d) [Debugging			
296. Following are the an order.	different steps	that is to b	e followed in	design method	lology arrange them in
a) First level factoring	b) f	actoring of	finput		
c) Restate the problem	d) I	dentifying	the input and	l output	
a) a, b, c, d	b) c, d, a, b	c)	a, d, c, b	d) a, c, l	b, d
C	Lazaras	W 1100	Mari	atrai A	
297. COCOMO is an ef	fort estimation	model in te	erms of	uri	
a) Cost	b) Person- Moi	nths	c) Both	d) None	of the above
298. Pick the odd one	out				
a) Component assembl	y model	b)	Spiral Model		
c) Incremental Model			Iterative Mod	del /	
299. During Requirement include which of the		rding inter		T	are system does not
a) User Interfaces	b)	Software	Interfaces		
b) c) Hardware Interfa	aces d) Modul	e Interface	es		
	,,				
300. External Entities i	n a Context Dia	gram may	oe		
A) People	B) Other	Software S	ystems	C) Hardware	D) Databases
a) Only A & D	b) Only B & C	c)	Only A, B & D) d)	A,B, C & D
•		·	•	·	
301. Example of a Sem	iantic Data mod	el is			
a) Data flow diagram b			c) Entity Rel	ationship Diagi	ram d) All of the above
,	,				,
302. A system develop	ed to give end ι	ısers a con	crete impress	sion of the syste	em capabilities is called
a) Semantics	b) Model	c) Proto		d) Abstraction	
-,	.,	5, 11010	-71-	.,	
303. Planning the solu	tion to a progra	mming pro	blem using a	structured tech	nique is called
a) Coding	b) Compiling	c) Mode	ling	d) Design	
, 5	, , ,	,	J	, 3	
304. Conception & pla	nning out of ext	ernally ob	servable char	acteristics of a s	software is called a)

b) User Interface Design

External Design



c) Both a and b options	d) None	of the above		
305. A way of indicating Procedural Abstraction	n b) Data Abstra	ection	the actual mechanis	sm a)
c) Control Abstraction	d) None	of the above		
306. The number & co a) Modularity	mplexity of interconi b) Cohesion		o modules is an ind d) Abstractior	
307. The method of dea) Factoring	_	chart from the DFD is		the above
308. Which of the followard there should be only of the by There should be at	one module at the to	р	·	
c) The sequence or o		epresented		
d) All of the above	hrivar	n Man	tri	
309. A programmer m rules are called:	ust follow the rules f	or coding a particula	r programming lang	uage. These
a) Pseudo code	b) Iteration	c) Syntax	d) Documenta	ation
310 is the praintenance of Adaptive maintenance of the praintenance of the prai	b) Correcting the software to extende b)	c) Debugging	d) Testing inal functionality is cance	called
312. COCOMO is categ	gorizes as a	estimation tech	nnique	
a) Heuristic	b) Empirical	c) Analytica	ıl d) None	of the above
313. Which of the followstaffing Pattern peaks b) Schedule compress c) Expanding the sched d) All of the above 314. RMMM is a Risk Mark Risk avoidance by developed to the continuous risk mode. b) Continuous risk mode.	at Coding & Unit tession increases effort edule gives extreme some some some some some some some s	ting in proportion to four saving in effort dology which focusse ion plan the project	es on a)	g d)
All of the above				J →1



c) Side effects	•	of these option	•	
316. Software quality	managers are resp	onsible for	_•	
a) Quality assurance	b) Quality p	lanning	c) Quality control	d) All of the above
317. Which of the followate inputted b. GUI component c. Another system 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	l as a way to repres b) False	ent only OO so	ftware systems	
319. Use cases can be a) True	included in any typ	oe of collaborat	ion diagrams.	
320. Which of the following	owing is reason of p	oroject failure?		
a) Finite resources				
b) Inaccurate estima			tor	
c) Others are comped) None of the above	eting to do the job o	neaper and ras	itei	
•				
321.	1007	_ /	A STATE OF THE STA	
a) COCOMOc) Use case estimation	•	ction point and of the above	lysis	A
c) Osc case estimation	u) All V	or the above		
322. Pick up odd one	out of the following	S		
a) Component assemb	ly model	b) Spiral mode		
c) Incremental model		d) Iterative mo	odel	
323. Parts of design p	rinciple are			
a) Correctness, robus	stness, efficiency, fl	exibility, under	standable	
b) Correctness, robu	stness, efficiency, f	lexibility, reus	ability	
•	ness, robustness, ef	• •		
d) Flexibility, correcti	ness, robustness, ef	fficiency, securi	ty	
324. Which of the follo	wing can be a reas	on for project f	ailure?	
a) Finite resources		b) Ir	accurate estimates of	f cost & time
c) Others competing to of the above	o do the job cheape	er & faster.	d) N	lone



325. An approved feas	ibility study is a deliver	able out of	
a) Systems design	b) Pr	eliminary investigation	
c) Systems developmer	nt d) S	ystems analysis	
		es are all tools used in the	e step a)
Preliminary investigati		ns analysis	
c) Systems developmer	nt d) Sy	stems implementation	
•	em is studied in depth o ation b) Systems anal	·	nase of the systems life cycle.
b) Systems design	d) Sy	stems development	
328. The SDLC Model i	most suitable for small	projects with unclear req	uirements is but not many
a) Spiral Model	b) Incremental Model	c) Waterfall Mode	d) Prototyping Model
A. Documentation a) A, B, C, D 330. Automated CASE a) Requirements Docur c) Requirements Analys	b) D, B, A, C tools like PSL/PSA do nentation sis engineering process hab) Require	c) D, C, A, B	d) B, A, D C
332. Concept of Abstra	action is used in		
a) Requirements phase	b) Design I	Phase c) Testing Ph	nase d) All of the above
333. The number of su a) Control range	bordinate modules cor	ntrolled by a module is ca c) Fan in	lled its d) Width
334. If two modules pa	ass a data structure acr b) Data Coupling	oss their interface they eact of the content Coupling	xhibit d) Control Coupling
335. The strength of re	·	nich of the following elem	nents of a module is examined
a) Function declaration	s, function definitions&	k calls b) Vari	able declarations
c) Data definitions		d) All d	of the above
336. The graphical too a) Context Diagram	· · · · · · · · · · · · · · · · · · ·	oresent the system archit c) Architectural Pla	



337. The value of CO be	COMO cost driver	attribute for lo	wer than average	e Reliability requirement	will
a) Greater than 1	b) Equal to	o 1 c)	Less than 1	d) None of these	
338. Example of Soft	ware Configuration	n Items (SCI) is			
a) SRS	b) Code	c) User	manual d	All of the above	
339. Top of Form Wh		g factors of a S	oftware Product	may not contribute much	ı to
a) Understand ability	b) Fl	exibility	c) Security	d) Testability	
340. Your Answer: Th	ne Software Life Cy	cle covers activ	vities from		
a) Feasibility Study to	-		Requirements Pl	nase to Testing	
c) Requirements Pha		-		on to Software Retireme	nt
341. Any activity des	igned to keep prog	rams in workir	ng condition, erro	r free, and up-to-date, is	
referred to as <u></u>	YTOTOTOTO	700 TV	Towns from	: A	
a) Maintenance	b) Testing	(C)	Debugging	d) Coding	
No.			/		
342. During the		he s <mark>ystems life</mark>	cycle, the new ha	ardware and software are	ž
	Development	c) Implement	cation d) Maintenance	
343. E-R diagrams ar	e used in				
a) Database design		ata Dictionary	compilation	V- \	
c) Architectural design	9	d) Functional			
344. The flow of data	within a system is	described by	3		
a) Data flow diagram	· ·	-		Decision table	
24E Formal chacifica	ution tochniques ar	en hasad an			
345. Formal specifica	-		ط/ ۱۱۸	f the above	
a) Set theory	b) Logic	c) Sequence	d) All 0	f the above	
346. Using the name example of	of a sequence of i	nstructions in p	place of the seque	ence of instructions is an	
a) Procedural Abstrac	ction	b) Data Abstr	action		
c) Control Abstraction		d) None of th	e above		
347. Providing a logic representation is		e data object w	rithout concern fo	or the underlying	
a) Procedural Abstrac	tion	b) Data Abstr	action		
c) Control Abstraction	l	d) None of th	e above		

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	hose all elements exhi cohesive	bit relationship	which involves both o	data and control flow is
a) Sequentially		nicational	c) Temporally	d) Procedurally
349. The afferen	t branch of the DFD en	ds at the		
a) Most Abstract	Input	b) Most	Abstract Output	
c) Middle of the o	entral transform	d) All of	the above	
Objectoriented s	software development ess that organizes a pro perations necessary to	is more efficien ogram into obje	t than traditional met ects that contain both	
c) I and III are cor	rrect d) I, II and	III are correct		
	else construct is an ex	•		
a) Sequencing	b) Selection	c) Iterati	ion d) All c	of the above
352. Proper prog		usage of proper	use of indentation, b	lank spaces, blank lines,
a) Efficiency of th	e program	b) Size o	f the program	
c) Maintainability	V =		pility of the program	
353. Static verific	ation & validation is ap	plied to		
a) SRS	b) Design	c) Code	d) All of the abov	e
354. Static testir	ng involves			
a) Code Analysis	-	alysis c)	Data Flow Analysis	d) All of the above
356. Statistical Te	esting is used for			
a) For statistical s	oftware's only	b) Only uncov	vering defects	
c) Reliability esti	mation	d) Efficiency e	stimation	
357. Which of th	e following is NOT true	about software	e testing	
a) It follows a b phase	ottom up approach		b) Testing is plani	ned after the coding
b) Complete tes defects	sting is not possible		d) Testing only es	tablishes presence of
358. Which of th	e following is NOT true	with regard to	Testing & Debugging	
a) Testing include	es debugging		b) Debugging inclu	ides retesting
c) Testing only es	tablishes presence of d	efects	d) Debugging repa	airs the program defects
359. Purely black	k box testing would be	used at which o	of the following levels?	?

b) Module testing

a) Unit testing

32



c) Integration Testing	a)	Acceptance Te	sting		
360. Black box testing a) Functional Errors		=	rface Errors	d) All of ti	hese options
361. Test Data includea) Set of inputsb) c) Information of f		•	of expected out options	puts	
362. Testing strategie	s can be				
a) Top – down testing, c) Back – to – back tes	-		ead testing, Stro of above	ess testing	
363. A stub is a dumma) Superordinate			e of the module c) Coordinate		ing All of the above
364. Testing done wit a) Data testing	h real data is called _ b) Unified tes		- c) Alpha testing	d) B	eta testing
365. The following are	e the testing strategie	es except			
a) Top-down testing	b) Thread tes	ting c) Stro	ess testing	d) Verifica	ntion testing
366. An example of ara) COCOMO 367. The Lines of Code a) Compiler Directives	b) FPA	c) Delphi clude	7 / //		oftware Science
368. Repeatable level a) Level 1	b) Level 2	s c) Level 3	d) Le	evel 4	
369. The collection of called		, procedures, ru	les and associat	ed docume	nt and data is
a) Software	b) Hardware	c) Both	d) None		
370. A context diagram a) Only one process c) At least one process	b) More	than one proce	<u> </u>		
371. The spiral model i a) Development type		ement type proj	ect c) Both d)	None	
372. Three major fact	or of software engine	eering are			



- 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

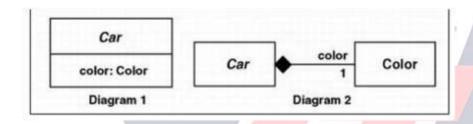
- 374. Match the level testing can work on
- 1) Acceptance Testing
- 2) System Testing
- 3) Integration Testing 4) Unit Testing

- 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	="	the system or t	he use of a specific lang	uage during
a) Functional requirem		b) !	Non-functional requirer	ments
c) Requirements defini		•	None of the above	
381. What is a Require				
a) What software provi	ides. I	b) Requiremen	ts in SRS	
c) What customer wan	ts?	d) All of the ab	ove	
382. Which of the follo	owing is a toc	ol in design pha	se?	
a) Abstraction	b) Refineme	ent c) Ir	nformation hiding	d) All the above
383. The data flow dia	ıgram			
a) Depicts relationshi	ips between d	data objects de	picts relationships betw	een data objects
b) Depicts functions t				A .
c) Indicates how dat	a are transfo	rmed by the sy	stem antri	
d) d) Both b and c		Will 1	VIMILLILI	
384. Content testing u	ıncovers			
a) Syntactic errors		nantic errors	c) Structural errors	d) All of the above
., .,		7 / 1 7		
385. Which of these a	re standards	for assessing so	oftware processes?	
a) SEI R b) SF		c) ISO 900		and c
a, c=:				
386. Methods of Proje	ct Monitorine	g are		
a) Time sheet	(0)	alue method	c) Design Constraints	d) Both a & b
,	,		, 0	,
387. Risk projection at	tempts to rat	e each risk in t	wo ways	
a) Likelihood and cost	•		b) Likelihood and imp	pact
c) Likelihood and conse	equences		d) Likelihood and exp	osure
388. Effective risk mar	nagement pla	n needs to add	lress which of these issu	es?
a) Risk avoidance	b) Risk mon	itoring	c) Contingency planni	ng d) All of the above
389. To quantify a risk	we need to	do the followin	g	
a) Determine the possi	bility of risk h	nappening		b) Both a and b.
c) Determine consequ	ences of the	problem associ	ated with that risk.	d) None of the above.
390. Deliverable for a	software Pro	ject is		
a) Source Code	•		b) Design Documents	

d) All of the above

c) Requirement Documents and Test Plans

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					V
391. S	coping is done during,				
a) Prop	osal Stage	b) Requirement	s gathering stage		
c) Desig	gn Stage	d) Coding Stage			
	software engineer is mea liability' and the "validity'	= -			
•	liability refers to the exter tem and validity refers to		•		al quality of the
•	liability refers to the cons ent to which the measure		-		-
c) Rel	liability refers to the accur which the measurement f	acy of her quality r	neasurements an	=	
•	liability refers to the concurrent to which the managers	•	•	-	refers to the
ехі	ent to which the measure	inents are consiste	nt with establishe	eu norms.	
393. Q	uality attributes are the o	verall factors that a	affect		
a) Run-	time behaviour b) S	System design	c) User experien	ce A	d) All of the above
	esting is a				
-	cess of executing a progra	ım with int <mark>ent of f</mark> i	nding an error b		=
c) Proce	ess of testing software			d) All of the	above
396. Bla	ack box testing checks the	following errors			
	- '	nterface errors			
c) Both	a & b d) d	Non <mark>e of the</mark> above			
	method of estimating the Estimation b) UCP E		P Estimation estin		d) COCOMO
	cheduling begins with				
•	identification timation	b) Process decoid) COCOM0 esti	=		
c, 11 L3		a, cocomo estr	nacion		
399. A	ggregation represents				
a) Is a r	elationship b) Part of	relationship	c) Composed of	relationship	d) None of above
400. N	Modules X and Y operate o	on the same input a	nd output data. T	he cohesion	is said to be
ā	a) Sequential b) C	Communicational	c) Procedu	ıral	d) Logical
401 F	Stimates are made in a nr	oiect nrimarily on			

402. SPMP document is made at the end of a) **Project planning** b) Project mon

b) Cost

a) Size

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

c) Both a and b.

d) None of the above

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40	While gatherin do it	g the requirement	s on OO way	(using RUP U	ML), the very	first thing we should
a)		nctional requirem	ents			
		Jsers of the Syster		ctors)		
-		on-functional requ	•	,		
-	Create Test plan					
·	·					
40	4. What is the sol	ution to "Yes-But S	Syndrome" in	requirement	s gathering?	
a) I	mprove technical	skills	b) Se	ek customer	feedback ear	ly
c) L	earn a tool for red	quirements	d) No	one of the abo	ove	
40	5. Which of the fo	ollowing statemen	ts is true rega	ırding scenari	os?	
		ances of a use case	_	_		s of many use cases.
•		stance of a scenari	•	one of the ab		, , , , , , , , , , , , , , , , , , , ,
-, -			5, 5, 1		- A	
40	6. Which of the fo	ollowing is true abo	out a Build?	1 0000	4-00	
	The state of the s		H 10 10 11 1 1 1	V 11 11 11 11 11 11	rt of the syste	em that demonstrates
uj		apabilities provide		7 /	it of the syste	in that acmonstrates
h۱		A 7			ent lifecycle a	nd provides review
IJ,	points.	.cs an integral part	or the iterat	ive developin	che inceyere a	na provides review
c)	•	ced under configu	ration contro	l in case there	is a need to a	roll back to an earlier
C)	•					wise some form of
	compromised Bu		caases break	ages or when	diere is other	wise some form of
٩)	All of the above	No. of the second				
uj	All of the above				/ /	
<i>1</i> ∩	7 What is the Co	st of quality, Failur	a cost nrava	ntion cost an	d appraisal co	nct?
			-			
a) 1	.20, 35, 37, 50	b) 37, 95,	, 120, 40	c) 95, 37, 1	13, 43	d) 120, 13, 45, 40
40	8. Prevention cos	t iv) Efforts spent (on reviews ar	nd testing		
a) a	ı-iv b-iii c-ii d-l	b) a-iv b-	ii C-iii d-I	c) a-ii l	o-iv c-i d-iii	
,		,		,		
То	p of Form					
409). Software Engine	eering is concerned	d with	_•		
	rocess	b) Methods	c) To		l) All of the al	oove
		,	·			
410). Static verification	on of code is not li	kely to reveal			
a) L	ogic errors b)	Syntax errors	c) Perform	ance errors	d) Codi	ng standard violations
41	1. Which factor a	mong the followin	g has least ef	fect on the te	stability of a s	oftware?
a) [Decomposability	b) Efficie	ncy	c) Understar	nd ability	d) Observability

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

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a) Static Testing	b) White E	Box Testing	c) Black	Box Testing	d) Interface testir
413. In unit testing wh	nich of the follow	ng is the stro	ngest testi	ng strategy?	
a) Statement coverage	b) Branch Co	overage	c) Conditic	n Coverage	d) Path coverage
415. Selection of test called	paths according t	o definition&	usage of c	lifferent variab	les in the program is
a) Path coverage testin	g	b) Condition	n Coverage	testing	
c) Data Flow Testing		d) Branch C	overage Te	esting	
416. Compared to small	all team projects	large team pı	ojects are		
a) More sensitive to pr	ogrammer ability		b) less sen	sitive to progr	ammer ability
c) Not sensitive to prog	grammer ability		d) None of	these	
417. Which version of various subsystem systems?	s by considering	the difference	es in the co	omplexities of i	
a) Basic COCOMO c) Complete COCOMO		termediate (itri	
418 Structural approa a) Glass box testing c) Input box testing	b) Black b	as ox testing box testing T	on of Form	_/	
c) iliput box testilig	d) Output	box testing i	op of Form		
419. Ability of a softw time	are to perfor <mark>m st</mark>	ated function	under sta	ted condition f	for a stated period of
a) Efficiency	b) Robustness	c) Rel	iability	d) Corre	ectness
420. Among the follow	ving types which	is the most u	ndesirable	form of coupli	ng
a) Stamp Coupling	b) Common Cou	pling	c) Content	Coupling	d) Control Coupling
421. Which of the follo	owing would NO	appear as a	symbol on	a flowchart?	
a) Data type	b) Decision	c) Inp	ut/output	d) Proce	essing
422. All of the following	ng are control str	uctures used	in structur	ed programmii	ng, EXCEPT
a) Iteration	b) Selection	c) Sec	uence	d) Go to	
423. In, the test		ie code and ບ	se knowle	dge about the	structure of a
a) Black box	b) White box	c) Stress tes	sting	d) None of th	e above
424. What are the cor Client (Presentation) -	•		-		cture? a)

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

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	nagement) –Server (App on Processing) – Server-			
425. Iterative metho	od contains the feature o	of		
a) Water fall method	b) Prototype method	c) Both	d) None	
426. Which of follow	wing order is true in soft	ware engineering	g life cycle	
a) SRS, Design, Codi	ng, Testing	b) Design, Cod	ling, Testing, SRS	
c) SRS, Design, Testir	ng, Coding	d) Coding, Tes	ting SRS, Design	
427. Which is the m	ost commonly used deb	ugging approach	?	
a) Brute force	b) Back tracking	c) Cause elim	ination d) None of the	e above
428. Four important	t characteristics of a soft	tware product ar	e a)	
Dependability, usab	ility, reliability, robustne	ess		
b) Maintainability,	dependability, efficiency	y, usability		
c) Supportability, r	naintainability, visibility,	, rapidity	ntri	
d) None of the abo	ve	LIVIU		
429. Enough time w	ill be left at the end of t	he project to und	over errors that were	made Because
-	igh thep	· / / / /		
	is worth the effo			The
same word)			7 . /A	
•	Design c) Testing	d) None	of the above	
, , , ,				
430. Who should be	erform the validation tes	:†?		
a) Software develo		b) Softwa	re user	
•	velopers and users	•		
b) c/A group or ac	velopers and users	a) None of the al	,0vc	
431 Find the activity	,, which is not part of ve	rsion manageme	nt	
•	ge b) Storage managem	•		ne ahove
a) controlled chang	e by Storage managem	icht cy coung s	tandara aj None or ti	ic above
432. Testing				
a) Installs guilt	b) Is punishment	c) Is to fi	ind errors d) None	of the above
433. Which is more	important?			
a) Product	b) Process	c) Quality	d) None of the	e above
434. The sooner you	u begin, th	ne longer it will ta	ke to get done.	
a) Coding	b) Testing	c) Design		e above

435. Verification is to check

a) Whether we are building the right product

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b) Whether we are b	ouilding the product rig	ght		
d) None of the above				
a) Requirements, Ab) Requirements, A	rect sequence of proce nalysis, Test case desig Analysis, Design, Test o est case design, Analys ve	gn, Design case design		
·	lity assurance activity t Formal technical revie	-	ed by software c) Design	e engineers d) None of the above
a) Top-down	r, coding and testing a b) Bottom-up	re done c) Cross-sec	tional	d) Adhoc
Problem description c) Feasible alternativ		oject name) Data-flow diag	rams	cument a)
a) An analysis investi	V -	7 /	nanager's forr	nal request
c) Scheduled system	- V		of the above	
Inadequate user inv c) Size of the compa	y of failure free operat	systems integral tinuation of a p	ation roject that sh ter program in	velopment Project? a) ould have been cancelled n a specified Environment None of the above
, , ,	,	, ,	, ,	
443. The four icons	used in building Data F	low Diagram are	9	
a) Flow, Source, Stor	e, Process	b) Flo	w, Process, Sc	ource, Store
c) Flow, Process, Sou	rce/Destination, Store	d) Soi	urce, Process,	Destination, Store
444. Which of the formal Application generators	ollowing is (are) not a to		neration langu	=
445 All of the follow a) Structured English	ing tools are used for p b) Decision ta	· ·	ion except c) Pseudo cod	le Data Dictionaries

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

c) User training

b) Program testing

a) File conversion

d) All of the above

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

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

448. Benchmarking is used

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

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

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

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

- a) Requirements of capture
- b) Define how the software system will be used
- c) Describe what the user expects to do with the system
- d) Make clear what the stakeholders needs are

451. With their correct characteristics:

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

b) X<mark>1-Y2 X2-</mark>Y3 X3-Y4 X4-Y1

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

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

453. Function point is

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

454. A system version

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

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- b) Is an instance of a system that differs in some way from other instances
- c) Should either include new functionalities or should be intended for a different hardware platform
- d) Is created to fix reported faults as part of development process

455 What is synchronization control in configuration management? a) It governs which software engineer have the authority to access & modify a

b) Particular configuration object

Defects + number of post release Defects)

- c) It helps to ensure that parallel changes performed by two different people don't overwrite one another
- d) It synchronizes two different system versions to form a single versions
- e) It helps to synchronize the source code files to form deployable version

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

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

of failure) to (Exe	cution time)		
457 SRS is maintain	ed in configuration envi	ronment as	
a) Software design b	· V	b) Software developme	ent baseline
c) Software artefact'	s	d) Sof <mark>tware pr</mark> oduct ba	
458 Following is the	SCM audit to <mark>ol</mark>		
a) Requirement metri	cs b) PERT charts	c) Source Code	d) Design Document
459 Delphi method o	of cost estimation uses		
a) Functional point an		b) SLOC expressed	
c) PERT model using	effort calculations	d) Decomposition	method of cost estimation
460 Validate that the	e functions meet started	requirements or not is c	alled as
a) Unit testing	b) System testing	c) Integration Testing	d) Acceptance Testing
461 What do you me	ean by incremental testir	ng?	
a) White box testing	b) Black box testing	c) Top-down testing	d) Independent testing
	uld be performed for		
a) Requirements	b) Design	c) Code construction	d) All of the above
463 Validation is mos software/program		he	of the final
a) Correctness	b) Consistency	c) Completeness	d) Quality



464. Quality control p	procedures are			
a) Preventive costs	b) Appraisal costs	c) Failure costs	d) None of the	e above
465. Who should be in	nvolved in determined	risk management?		
a) Customer	b) Management	c) Development to	eam d) All of t	the above
466. Which of the fo	ollowing is an attribute icy	of Quality? a) Pro	ocess b) Product	c)
•	ign SDLC phase is imm ing b) Initiation	•		a)
468. Resource plann tasks carried out i	ning, audit planning, es n	timation, scheduling	are the some of the	2
a) Initiation phase	b) System design pha	ase c) Definitio	n phase d) Evaluati	on phase
469 System reviews a a) Quality control	nd software testing are b) Quality assurar	e examples of ncec) Quality audit	ts d) None of the al	bove
470		executing the code		
a) Registration	b) Unit	c) System	d) Static	
471. Which of the foll	owing is not a w <mark>hite b</mark> o	ox testing technique	?	
a) Statement coverag	e	b) Equivalen	ce Partitioning	
c) Decision/condition	coverage	d) Multiple	condition coverage	
472 Which of the fall	avvina task is not works			
	owing task is not perfo		=	
a) Create the softwarec) Support managemen	v & v pian nt and technical review	·	he management rev n-process reviews	lew of v & v
473. A standard must	he			
a) Measurable, Attai		o) Smart, Measurabl	e and Time-hound	
b) Measurable, Achie		d) Approved, Availab		
474. Which are the fo	ur primary standards c	of ISO 9000?		
a) ISO 9000, ISO 9001	, ISO 9004, ISO 10010	b) ISO 9000), ISO 9001, ISO 900	6, ISO 10011
c) ISO 9000, ISO 9003	1, ISO 9004, ISO 10011	d) ISO 9000	, ISO 9001, ISO 9004	1, ISO 10054
475. Cost of quality in	cludes			
a) Preventive, Correcti	ve & control	b) Preventiv	e, detective & contr	ol
c) Preventive, appraisa		d) None of t		
476. AQL stands for?				



			ted quality level ed quality level	
477. Quality a	assurance is a funct	on responsible for		
a) Controlling	quality b) N	lanaging quality	c) Inspections	d) Removal of defects
478 a) DFD		perform structured an c) COCOMO		ment the result. f the above
		nternal data structure		d) None of the above
-	Fest will not include b) Risks		esumption criteria	d) None of the above
481. As series	of definable, repea	atable and measurable	tasks leading to us	eful result is called
a) Program	b) Proces	s c) Activity	d) Controller	
a) Determine t	step in project plar the budget e objectives and sco	b) Deter	mine the project co	
	f the following is a c cases for all compo	chara <mark>cteristic</mark> of a good	decision? a)	
c) Implemen	· W	veen its modules in the analysis model descriptive purposes		
484. Which o	=	acteristics of a strong of the	deign? c) Modular	d) All of the above
Reduces tech b) Increases c) Increases	f the following is a one of the following is a control of straight dependency on other straight control on other of the following straight dependency on other or the following is a contract of the follow	itegic information	ırcing? a)	
	r process models al	l steps come after finis	shing of a step then	that model
		c) Water fall model	d) None of	f the above
= = = = = = = = = = = = = = = = = = =	•	hod comes under whic	=	=



488. Which o	of the following prov	ides the foundation for team deve	elopment?
a) Motivation		b) Organizational developr	ment
c) Conflict mar	nagement	d) Individual development	t
489. Which o	f the following is a ke	ey to effective software engineeri	ng?
a) Good skills	b) Good design	c) Good Management	d) None of the above
490. Estimation	on for the satisfactio	n of the identified user needs is k	nown as a)
Feasibility stu	ıdy	b) Requirements evolut	ion
c) Requiremer	nts capture	d) None of the above	
491. Translati	ing the algorithm int	o a programming language occurs	s at thestep of
a) Debugging	b) Coding	c) Testing and Documentation	d) Algorithm Development
492. Who des	signs and implement	database structures?	K
	and the same	gers c) Technical writers	d) Database administrators
493. The	A A	determine <mark>s wheth</mark> er <mark>the project s</mark>	- Allenda
Feasibility ass		b) Opportunity identific	ation
c) System eval	uation	d) Program specification	
-	-	vare <mark>code is d</mark> one duri <mark>ng the</mark>	step in the SDLC
•	ce and Evaluation	b) Design	
c) Analysis		d) De <mark>velopme</mark> nt and	Documentation
495. Evolutio Are iterative	nary software proc <mark>es</mark> in nature	ss models	a)
b) Can easily	accommodate prod	uct requirements changes	
c) Do not ge	nerally produce thro	waway systems	
d) All of the	above		
496. Which o	f the following is not	a part of testing?	
a) White box t	esting b) Bla	ack box testing c) Inner testing	g d) Gorilla testing
497. Quality a	assurance		
a) Focuses o	n removal of defects	before release	
•	planned and system en requirements for	atic actions to provide confidence	e that a product or service will
	k the system for its ir		
d) None of the	· ·		
498	is the ch	ain of activities that determines t	he duration of the project
a) Object poin	ts b) LOC	c) Lines of code d) C	Critical path



	Debugging is a consequence of		a)	
	unsuccessful test			
	An error in design			
•	A successful test			
d)	A metric that describes the degree to	which a software pr	oduct meets it	s requirements
500). In object-orientation, polymorphism	means	·	a)
The	ere can be many objects in the design			
b)	Methods can be changed in many way	/S		
c)	Many ways can be instantiated of a cla	ass		
d)	Objects can implement the same met	hod in many ways		
501	The spiral model of software develor	oment	a)	
End	ls with the delivery of the software pro	oduct		
b)	Is more chaotic than the incremental i	model		
c)	Includes project risks evaluation durin	g each iteration	d)	All
	of the above	n Mai	ntri	
502	2. The objective of software project pla	nning is to		a)
	nvince the customer that a project is fe	/ / / /	7	- \/
	Enable a manager to make reasonable		nd schedule	
-	Make use of historical project data			
•	Determine the probable profit margin	prior to bidding on	a project	
ω,	processing the processing prome margin	prior to blading on	a project	
503	8. Which of the following is not a secti	on in the standard f	or SQA plans re	ecommended by IEEE?
		and audits c) Test	//	
504	 Which of the following tasks is not ρ 	part of software con	figuration man	agement?
		c) Statistical quality of	_	=
505	6. How many steps are in the program	development life cy	cle (PDLC)?	
a) 4	b) 5	c) 6	d) 10	
506	is a measure of in	dependence of a me	odule or comp	onent?
		c) Loop couplin		
507	'. The purpose of requirement phase is	5		
a) To	o freeze requirements	b) To understa	ind user needs	
c) To	define the scope of testing	d) All of the ab	oove	
508	B. A modular design has			
a)	High cohesion, low coupling and high	abstraction		
b)	High cohesion, low coupling and low a	bstraction		
c)	Low cohesion, low coupling and high a	abstraction		



d) High cohesion, h	nigh coupling and	high abstraction			
509. The outcome ofa) Sufficient underb) Sufficient underc) Sufficient underd) Sufficient under	rstanding of the postanding of the prostanding of t	roblem to write oblem to write a oblem to sugges	formal desc t a solution (ription of it. or solutions)	
510. Corrective maiMaking the systemb) Correcting the f	more functional	,	ng testing		
c) Making the systed) All of the above	em work in new e	nvironment			
511. Testing is done a) Finding new error c) Both 1 and 2		b) Corre	ecting errors e of the abov	 in the software e	
512. If a software had what would be a working days in	good estimate of		•	ng (Assume 10 tes e over the Next w	• • •
a) 0.0275	b) 0.598	7 c)	0.0769	d) 0.9500)
 513. A requirement a) A general list of b) A precise and m c) A formal list of t d) A list of softward 	things that the pro athematical list o hings that the pro	f things that the posed software	proposed so must do		N.
514. Which of the forma) Outline descriptb) Set of prelimina	ion of the system ry business requir	ements		d) All of the other	
515. Assuming that	the tests are repr	esentative of the	operational		
a) 0.95	oftware system th b) 0.9	at has had 10 fai c) 0.1	lures in 200	d) 1	
516. A critical task is a) Minimum slack tir		m slack time	c) No sla	ck time d) None o	of the above
517. Which of the fo	_			ftware developme t Continuous risk r	

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c) Both 1 and 2	d) Choice 2 only
518. How maintainability can be achieved? Through Error recovery	a)
b) When the S/W process evolves to refle 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	
c) A timing constraint placed on the syste	em or the use of a specific language during
d) None of the above	n Mantri
521. The project plan should be regularly rea) Yes	evised during the project. b) No
c) It cannot be changed, it is to be followed	d) It <mark>is made only once at the start of project</mark>
 522. A program's control flow structure ind a) Correct program b) The sequence in which the program's in 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 t	he system's components
527	7. Which term defines the process of project complian	ce with policies and procedures? a)
	ality control b) Quality assurances	
c) (Quality audits d) Quality control	
ma	nagement	
528	8. Which of these terms apply to identify quality stand	ards and how to satisfy them?
a) C	Quality projections b) Quality management c) Q	uality overview d) Quality planning
529	9. Acceptance test plan is	
a)	Most likely to arise from the requirements specificat	tion process
b)	Most likely to arise from the System integration	
c)	Both 1 and 2	
d)	None of the above	
		- A
	O. Visibility of design means	antri 🛦
-		nplex design
c) G	ood quality, consistent document d) None of	above
533	1. Project quality management includes	
a)	All activities of the performing organization that def	termines policies and responsibilities of a
	project	
b)	Performance quality control	
c)	Error detection	
d)	None of the above	
532	2. Important distinction between the spiral model and	other software process model is a)
Exp	olicit consideration of planning next phase	
b)	Explicit consideration of Validation	
c)	Explicit consideration of Risk Assessment and Reduc	tion
d)	Explicit consideration of Objective setting	
E 2 2	3. Capability maturity model	2)
	ves description for software process	_ a)
	States what activities are necessary for success	
-	Describes how activities are to be performed	
	Compare essential difficulties of software	
uj	Compare essential difficulties of software	
53	4. Validations is to check	
a) '	Whether we are building the product right product	b) Whether we are building the right
c) ⁻	The methodology of software development	d) The methodology of software testing

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	•	effort from a tear	n of 6 people?	mmerciai wei	Site that requires			
	portunistic	b) Waterfall	c) Incremental	d) Spi	iral			
536.	Deliverables are	usually milestones	but milestones need	not be deliver	rahles			
a) Trı			c) May be true					
		· ·	t case is called as					
a) Sta	atic analysis	b) Dynamic testin	g c) Structural to	esting	d) Exhaustive testing			
528	Configuration Ma	nagement is not re	elated with					
	_	es to the source co						
-		e configuration fo						
c) (Controlling docum	entation for an ap _l	plication					
d) N	Maintaining versio	ns of software						
					C			
		owing statement is		atvil				
			sented a set of charts					
-) The project schedule is usually represented as a set of charts showing the activities Dependencies and staff allocations							
			sented as a set of cha	rts showing th	ne work breakdown and			
-	activities depende	1 1/						
d) T	The project sched	ule is usually rep <mark>re</mark>	esented as a set of ch	arts showing	the work Breakdown,			
ā	ectivities depende	ncies and staf <mark>f all</mark> e	ocations					
E 40	Mhigh is true abo	ut regression testi	me2					
		out regression testi	e system underline is	an ungraded	or			
-	corrected Version	is carried out if the	e system undernine is	an upgraucu	OI .			
		checks that there	is no side effect after	changes	c)			
	Both 1 and 2							
d) N	one of the above							
5 <i>1</i> 1	Which of the follo	owing is true about	t integration testing?					
		_	ne errors related to va	arious module	interfaces			
-	-				icting or integrating the			
-	system		,,					
c) I	ntegration testing	g is a kind of testin	g, which is carried ou	ıt after constr	ucting or integrating			
	he system							
d) E	3oth 1 & 2							
542	Which of the follo	wing is not a queu	ed message?					
	M_TIMER	b) WM_QUIT	c) WM_COMM	AND	d) None of these			
•	_	,	, _		-			
543.	Which of the follo	wing is not a resou	irce?					

b) Dialog box Template

c) Html document

a) Bitmap

d) None of these



544. Which of the follo	wing the resource	?			
a) Bitmap	b) Html documen	nt c) Di	alog temp	d) All of the above.	
545. Which function is	used to compare t	he regions?	?		
a) Equal to	b) EqualRgn	c) Co	ompareRg	n	d) CmpRgn
546. Which of the follo	wing is non queen	message?			
a) WM_COMMAND	b) WM_QU	IT	c) WM_T	IMER	d) All of the above
547. Which function i					
a) Convert	b) Invert	c) Insert	1 (b	None of	above
548. Which API is use	d to copy and stret	ch the bitm	ıap?		
a) Bible b) St	tretchBlt	c) Patblt	1 (b	None of	above
549. Which of the foll		277	In	nti	d) All of the above
a) Bitmap b) D	ialog box template	c) Ht	ml docum	ent	d) All of the above
550. By default polygo		/_ /			
a) Dot-dash	b) Solid	c) Transpar	rent		d) None of the above
551. Begin thread pres	cont in which hoods	or filo2			
a) Winuser.h	b) Window's		ocess's		d) None of the above
552. What function to	stratch the hitma	Shoon is used?			
a) Stroll ()	b) Bit blt		retchable	()	d) Bitmap
553. Which of the foll	owing not Virtual k	cev?			
a) VK_PREV	b) VK_NEXT	c) VK	_UP		d) None
554. Which of the foll	owing is the blocki	ng function	1?		
a) Get message ()		b) Post qui	t message	e ()	
c) Dispatch message ()		d) Translat	e message	e ()	
555. To achieve a goo	d design, different	modules sh	nould have	e	·
a) Weak cohesion and	low coupling	b) W	eak cohes	sion and	I high coupling
c) Strong cohesion and	d low coupling	d) Sti	ong cohe	sion and	d high coupling
556. Spiral model	<u>-</u>				
•	exploratory prograi	_			
	y the assessment	of manage	ment risk	items.	
c) Both 1 and 2					



d)	None of the	above					
	. Cohesion is sure of qua		a)				
-	Concept rela		ng				
-	Understand	_					
d) I	Measure of	closeness o	f the relationship	os between t	he system's com	iponents.	
558.	The data in a) Design [re exchanged be b) DFDs		fferent function Diagram d) Da	s are represented as Ita Structure	
559.		the followin all model				n amount of risk analysi d) Incremental model	s?
560.	Design ph	ase will usu	ally be	_•			
a) Bo	ttom-up	b) T	op-down	c) Randon	n d)	Centre fringing	
			principles are ba				
a) Eri	ror correction	on	b) Error prever	ition c) Er	ror detection	d) None of the abov	_' e
562	Which of th	ne following	g are SDLC proce	ss models?			
	aterfall	- 10		Spiral	d) All of	the above	
,				7 1			
563.	Deploymer	nt of a syste	m refers t <mark>o</mark>				
a) <i>i</i>	Activities pe	rformed in	system t <mark>esting</mark>				
-	-	_	n into <mark>executab</mark> l				
c) T	The transitio None of the	on of the sy above	stem <mark>from its</mark> de	velop <mark>ment p</mark>	hase to the ope	erational phase.	d)
		-	al model sectors:	(X-Y)			
	Objective se	_	d				
	Risk assessm Developmer						
	•		ect characteristi	cs.			
	_		activities put in p		ce the kev risks		
			ne phase are ide		,		
	-		and the next ph		iral is planned		
Y4: /	A developm	ent model f	or the system is	chosen whicl	h can be any of t	the generic models a)	
	/3, X2-Y1, X3			•	-Y3, X3-Y4 X4-Y1		
b) c)	X1-Y2, X2-Y	1, X3-Y4 X4	-Y3	d) X1-Y3, X	X2-Y2, X3-Y1 X4-	·Y4	
565.	. The require	ement shou	ld specify				
a) W		b) What		How	d) All of the ab	oove	
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

tl	ne 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 menkey.(WM_INITMENU)



585.	API is used to kill a modal dialog box. (End Dialog())
586.	, and are windows resources defined in a .Res file. (Any three of these –ICON / CURSOR / STRINGTABLE / DIALOG / MENU / BITMAP)
587. ₋	API is used to set the text of an edit control. (Set Window Text())
	And are GDI objects. (Any two from Brush / Pen / Region / Font / Palette / Bitmap)
589.	When there is no message in the queue, Peek Message () function returns a) True b) False
590.	System keystrokes are generated for keys typed in combination with the key. (Alt)
591.	System keystroke messages are and (WM_SYSKEYDOWN, WM_SYSKEYUP)
592.	The virtual key code is stored in the parameter of the WM_KEYDOWN message. (wParam)
593.	The repeat count field is stored in the parameter of the keystroke messages. (IParam)
594.	Function is used for checking the type of information available in clipboard. (Is Clipboard Format Available ())
595.	Function is used to open the clipboard. (Open Clipboard())
596.	Function is used to clear the clipboard. (Empty Clipboard ())
597.	, and are windows resources defined in a .Res file. (Any three of these -ICON / CURSOR / STRINGTABLE / DIALOG / MENU / BITMAP)
598.	Function is used to clear the clipboard. (Empty Clipboard())
	Get Message () returns, when it retrieve WM_QUIT message form the messagqueue. 0) (window class)
500.	Window messages are defined in both windows.h and header files. (winuser.h)
501	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 softw	
b) Embedded software and Product-line soft	
 c) Software product and Environment or ap d) Application software and Data storage 	plication tool for software product development
603. Software Engineering encompasses -	
a) Process, Methods, and Tools	b) Process, Product, and Methods
c) Methods, Tools, and People	d) People, Process, and Product
604. Which one of the following is correct list	of prescriptive process model?
a) Waterfall, Incremental, Spiral,	b) Waterfall, V-shaped, Prototyping
c) Prototyping, Spiral, Adaptive S/w developm	
~ .	
605. Customer needs important functionality	to be implemented at earliest?
a) Waterfall b) Prototyping	c) Incremental d) RAD
	added to the waterfall model to form a model
a) Spiral b) Prototyping	c) V-shaped d) RAD
607 model is a variant of the Waterfall	model, which also emphasizes the verification and
validation	inodel, vinerals emphasizes the vermedian and
a) Waterfall b) Prototyping	c) <mark>Incremen</mark> tal d) V-shaped
608. Requirement should specify	
a) Hardware required to complete the project	ct
b) Resource requirement	
 c) A precise and mathematical list of things provide 	that describes what proposed software should
d) Description of how to develop the system	
609. Stakeholders are asked to rank / prioritis stage of requirement engineering.	se requirements & discuss conflicts in priority in
a) Conflict resolution b) Elaboration	c) Specification d) Negotiation
610. Use-cases are defined from point o	f view
a) An actor's b) A function's c) An ac	tor and functions d) None of the above
611. Product requirements, Organizational re	quirements, & 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 a) Internal failure cost	i) Efforts spent in post	dolivory de	ofact fiving	
b) Appraisal Cost	ii) Efforts spent in pre-	•	_	
c) External failure cost		-	_	development & training
d) Prevention cost	iv) Efforts spent on rev		_	severopinent & training
a) a-iv b-iii c-ii d-I	b) a-iv b-i			
c) a-l b-iii c-ii d-iv	•	c-i d-iii		
622. There are levels of C	MMi			
a) 5 b) 3	c) 1	d) 6		
623. The objective of project	t planning is to provide	a)		
Hardware & software requir				
b) Framework that helps to		mates of re	sources, co	st and schedule
c) Only the list of risks identi				E.
d) None of the above	riram I	Mar	ıtri	
624. Pick up the correct stat	S S	/-/-		
a) Project estimates should		/	-	
b) Project estimates should	7 / 1			al) Nicoco a Cultoro alcono
c) Project estimates should	s be updated as the pro	oject progr	esses	d) None of the above
625. The purpose of project	management is -			
a) Prediction and prevention		rodiction ar	nd reaction	
c) Recognition and reaction		one of the		
c) Necognition and reaction	d) IV	one or the	above	
626. Software project mana	gement is within	SDLC		
	rella activity	c) A milest	tone	d) None of the above
, ,	•	,		,
627. Which one of the follow	ving is FALSE STATEME	NT?		
a) Gantt charts are often us	sed for displaying the p	roject sche	dule	
b) Gantt chart shows both I	olanned and actual sch	edule inforr	mation	
c) CPM is used for finding to	total project cost			
d) Critical path is the longer	st path through the net	work diagra	am	
628. In Software project ma	nagement, 4 Ps have to	be manage	ed in follow	ing order -
a) Project, People, Product, P	rocess	b) Process	, Problems,	People, Product
c) People, Product, Process,	Project	d) Product	t, People, Pr	rocess, Problem
629. Scheduling begins with	Risk identification			
a) Process decomposition	b) FP Estin	nation	c) COCOM	10 estimation

630. One of the limitations of FP analysis is

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a) Evaluation effort is sm	all	b) Facilitates v	erification	
c) Does not provide phas		d) None of the		
631. Which one of the fo	ollowig nis true?			
a) Deliverables are usua	-	nilestones need not be	deliverables	b)
All milestones are delive				
c) Deliverables & Milesd) None of the above	tones are always del	iverables		
d) Notice of the above				
632. Risk assessment is	done in			
a) Analysis Phase b) Design Phase	c) Coding Phase	d) All phases o	of the project
633. Risk score (or Risk I	Exposure) is a produc	t of		
a) Probability of occur	rence and Impact on	project should the ris	k occur	
b) No. of resources on	project and daily per	person rate		
c) Probability of occurr			707	
d) None of the above	hriran	Mant	ri 🛦	
631. Risk assessment Pr	ocess involves			
a) Risk identification, T	reating problems, I <mark>ss</mark>	ue resolution		
b) Identify problems, R	esolve problems, <mark>Re</mark> r	oort problem		
c) Risk Identification, A	Assessment & M <mark>easu</mark>	<mark>irement, Planning, T</mark> ra	cking, Control	d) None of
the above		/ / / /		
632. In Risk managemer				
a) To convert risk data				
b) To shift the impact of	V //	d-party		
c) To reduce probabilit	•			
d) To define roles and r	esponsibilities			
633. Software requirem	ents should not he			
a) Functional	b) Ambiguous	c) consistent		
a, ranctional	27711112184243	o, consistent		
634. The decision logic i	s expressed by			
a) Data flow diagram	b) Flow chart	c) Structure ch	art	
635. Validation is to che	ck			

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

636. Corrective maintenance is to

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



c)	Make changes in	the environment			
63	7. Analysis phase is	5			
a)	Not to actually so				
b)	Not to determine	exactly what must b	e done to solve the	problem	
c)	To move quickly t	o program design			
63	8. Object models				
a)	Should include de	tails of the individua	l objects in the syst	em	
b)	Are part of design	1?			
c)	Are natural ways	of reflecting the real	world entities that	are manipulated by the syste	em?
63	9. The three classe	s of interface errors	are:		
a)	Interface misuse,	interface misunderst	tanding, timing erro	ors	
b)	Interface misunde	erstanding, interface	coupling, data tran	sfer errors	
c)	Interface coupling	g, timing errors, inter	face parameter err	ors	
64	0. Find the activity	which is not part of	version manageme	ntri 🛦	
	Controlled change	A	age management	c) Coding stand	dard
-,	8-		gement		
64	1. Which is the nor	n-technical factor of	maintenance cost?		
a) F	Program age	b) Progra <mark>mm</mark>	ing style	c) Program validation	
61	2. Software quality	vassuranco is la)			
	nulti-tiered testing				
	_	and reporting mechar	nism		
-		applied throughout		55.	
64	3. Most common b	out least effective wa	y of debugging is		
a) E	Brute force	b) Backtracking	c) Cause	elimination	
64	4. Equivalence par	titioning is a)			
A١	white-box testing n	nethod			
b)	A black-box testin	ig method			
c)	Neither white-box	x nor black-box testir	ng method		
64	5. Doing what is sa	id one would do, is t	he definition for		
a) F	Reliability	b) Quality	c) Softwa	are plan	
64	6. The typical elem	ents of the requirem	ents engineering p	rocess are	
	Problem analysis ternal behaviour sp	ii) Software de pecification	sign ii	i) Analysis of staffing needs	iv)
	and iv	b) ii and iii	c) i, iii and iv	d) i, ii and iii	

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647 In object models, information hiding conceals

a) Operations

b) Attributes

c) Methods

d) State and behaviour

Fill in the blanks:

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

Answers the followings in brief:

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

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

Answers the followings in detail:

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



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

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

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

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

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Apply a "stepwise refinement process" to develop three different levels of procedural Abstraction for developing a cheque writer that, given a numeric rupees amount, will print the amount in words that is normally required on a cheque.

703. Derive a set of test cases for a code which sorts arrays of integers. Draw a flow graph for an algorithm of your choice and derive its cyclamate complexities

A university intends to procure an integrated student management system holding all Details of registered 1students including personal information, courses taken, and Examination marks achieved. The alternative approaches to be adopted are either Buy a database management system and develop an in-house system based on this database.

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



large number of		ndergraduate College admission to FY, SY a	J	,	
The college has de	* *	e its admission progra			
Procedure requires	adhering to the nor	ns set by concerned a	government ag	encies, the	
University and the	college administratio	n. The procedure also	o involves disbu	ursing admission	
Forms at a cost, co	lecting duly complet	ed forms, preparing r	merit list and a	dmitting students	
•	, -	cting fees, preparing	and submitting	reports to the	
concerned authorities	You are require	d to identify:			
(i)Entities:					
a) Processes	b) Data flows	c) Data	a Stores		
715. Which SDLC Mode	el 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, wh	nat will be the relation	nship between "Ope	ning of Accoun	t" use case and	
"Deposit" Use case?	100000000000000000000000000000000000000	1//	4-12		
a) Uses b) Ext	ends c) I	ncludes / Common	d) None of the a	above	
717is an entit	y that is extemal to tefits from the interac	· / /	interacts with t	the system and	
-	e case		d) Relationship		
718. Review activity of	any software is unde	er which ki <mark>nd of Te</mark> sti	ng?		
a) Black Box Testing	b) Static Testir	ng c) Dyn <mark>amic Tes</mark> ting	g d) White I	Box Testing	
719. Equivalence Petiti Technique.	oning is a <mark>test case</mark> g	enera <mark>tion tech</mark> nique,	forkii	nd of Testing	
a) Static Testing	b) White Box Testing	c) Black Box	Testing	d) Red Box Testing	
720. In the Project Mai	nagement Triangle. V	Vhich parameter is m	ost important?)	
a) Time	b) Scope c) (Cost d) All of the	above are equa	ally important	
721. Quality assurance	help for				
a) Process improvemen	t	b) Testing			
c) Removal of defects b	efore release	d) All of the above			
722. Refers to the supp	ort phase of softwar	e development.			
a) Adaption	b) Enhancement	c) Maintenance	d) Actions	5	
723. Which one of the	following is the proc	ess of factoring the d	esign module?	a)	
Software re-engineering	g b) Con	figuration manageme	ent		
c) Software maintenance	e d)	d) software Refactoring			



724. Which of the fo	ollowing process is not p	oart of Project Risk	Management?	a)
Risk Identification	b) Effor	rt estimation		
c) Risk Analysis	d)	Risk Response Deve	elopment	
725. Enhances perfo	ormance 8. Functionality	y of the software af	ter delivery.	
a) Re-design	b) Re-engineering	c) Mainter	nance d)	Post checking
726. Which of the fo	ollowing is not a stage o	f requirement engi	neering process	s? a)
Feasibility study	b) Requiremer	nt analysis		
c) Requirement defin	ition d) Imple	mentation		
727. Which of the fo	ollowing meetings is not	part of Scrum?	a)	
Product review mee	ting	b) Sprint review me	eeting	
c) Sprint planning me	eeting	d) Sprint retrosp	ective meeting	
728. In Scrum, the p	orioritized work to be do	one is referred to as	5	
a) Sprint planning	b) Product bac			Standup meetings
720 Software rick in	npact assessment shou	ld facus on consequ	Joneses affecting	. a)
Planning resources			bility oost & per	
c) Business, technological			ance support, o	
c) business, tecinion	ogy & process	u) renomia	ance support, of	ost & scriedule
730. The process sta	arting with the term <mark>inal</mark>	modules is called_	a)	
Top-down integration	on	b) Bottom-up inte	gration	
c) Module integration	n d)	None of the above		
731. To check wheth	her we are de <mark>veloping</mark> t	he righ <mark>t produc</mark> t ac	cording to the c	customer
requirements or	not. This is known as st	tatic p <mark>rocess.</mark>		
a) Validation	b) Quality Assurance	e c) Verifica	tion d)	Quality Control
732. A reliable syste	m will be one:			
a) That is unlikely to	be completed on sdted	ule b) Tł	nat is unlikely to	cause a failure
c) That is likely to be	fault-free	c) Th	nat is likely to be	e liked by the users
733. To test a functi	on, the programmer ha	s to write a passes	it test data.	
a) Stub	b) Proxy	c) Driver		of the above
734. When a new te	esting tool is purchased.	it should be used fi	rst by: a)	
	ablish the best way to u		.50 57. 47	
	nay eventually have som			
c) The independent	•			
	ractor to write the initia	al scripts		
735. Pick up IEEE the	e best definition of soft	ware engineering?		
		٠٠ ت ت		

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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 O	riented c	l) Short term	process methods.	
737. The identification in	n of stakeholders a	and user class	ses in requirer	nents engine	ering is carried out	:
a) Elicitation	b) Analysis	c) Veri	fication	d) Specifi	cation	
738. Which among the execution of tests? a) Test incident report	Luina	122 A	al record of re	70 TA	s about the None of the above	
739. What is not inclu	10.7	1 1	-•			
a) Scope b) Speci	fic Requirements	c) Design	n Solutions	d)	References	
740. Project risk facto a) Spiral Model c) Prototyping Model	b) Wate <mark>rfa</mark>	ll Model enhanceme	nt Model			
741. Formal Reviews o	of an indivi <mark>dual pr</mark>	oduct used to	<mark>o eva</mark> luate cor	rectness base	ed on its input	
a) Inspections	b) Checkpoint re	eview o	c) Testing	d) \	Walkthrough	
742. Which of the beloa) Identify Constraints		es is not part Algorithms	=	_) Identify Milestone	:S
743. Which Agile princ	ciple can help in cl	naordic situat	tion?			
a) Incremental Deliveryc) PMO Policy	•	ntinuous Inte test Technolo	_			
c) i wio i oney	u, Lu	test recimon	76)			
744. Which of c the U			are developme	ent? a)		
Inception phase c) Consumption phase	•	ition phase on phase				

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

- a) All design should be as simple as possible, but no simpler
- b) A software system exists only to provide value to its users.

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TO DACT	eb 20 301tware Applicatio	ii bevelopilient 100is &	reciniques
	(20% of any product requ you produce others will c	•	
software? a	ollowing is valid reason(s) a) Allows developers to m le can be revised to reflec identify dwanges to incor	ake changes to the deliv t changes	
747. Which of the fo	ollowing is not generally c b) End-users	onsidered a player in th c) Sales people	e software process? d) Project managers
a) For all the project	ization develop one lifecyons b) For each projection		do main
a) Step wise refinem 751. Corrective mai a) Improve the sys b) Correct the und c) Make changes in 752. Analyse is phas a) Not to actually s b) Not to determin	ent b) Structurent b)	changing its functionali	ty
		sic	
Q.1 From the follow a. Quality assurance	ing which quality deals w b. Quality control	ith maintaining the qual c. Quality efficiency	ity of the software product? d. None of the above
Q.2 Function-orient a. Yes	ed design is comprised of b. No	many smaller sub-syste	ms is known as, Functions.
For scheduling a pro 1) Break down the p 2) Find out various t	owings are true or false. Dject, it is necessary to: Droject tasks into smaller, Casks and correlate them. The required for each task	_	rk-units.

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

b. False

a. True

for _____ .
a. Project planning.

b. Monitoring the progress



None of the above	enolders d. All mentioned above e.
Q.5 Software is not considered libraries and documentation	to be collection of executable programming code, associated ns.
a. True b. False	
Q.6 Which quality deals with th	e maintaining the quality of the software product?
a. Quality assurance b.	Quality control c. Quality Efficiency d. None of the above
Statement 1: Umbrella active throughout the process.	according to given below statement. vities are independent of any one framework activity and occur ity assurance, software configuration management are umbrella
•	ity assurance, software configuration management are not umbrella
activity.	• ***
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	neld between two persons across the table is
a. Written b. Non-structi	ured c. Group d. One-to-one
a. To describe what the custom b. To establish a basis for the co	
Q.10 When elements of module another element and so on	e are grouped because the output of one element serves as input to . it is called
a. Functional Cohesion	b. Communicational cohesion
c. Sequential cohesion	d. Procedural cohesion
•	word processor is a module of software. False
capability of getting	uped together if they have similar functionality, process activities and integrated with other tools.
a. True b.	False
Q.13 Which tool consist of prog	gramming environments like IDE, in-built modules library and
a. Web development tools	b. Prototyping tools
c. Programming tools	d. Design tools

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Q.14 Which depicts flow of control in program modules? a. Flowchart b. DFD c. Both A & B d. None of the above					
Q.15 Abbreviate the to a. Hierarchical Input Pr c. Huge Input Process (ocess Output	b. High-leve d. None of t	•	cess Outpu	t
Q.16 The total numbe a. Lawrence theory	r of distinct operator a b. Halstead's th	=	ccurrences c. Kyburg, F		are used in d. Jech, T.
cause the	ocuses on the identification of the courses on the identification of the course of the				azards that can
Q.18 Which model giv a. Sampling model c. Certification model	Name of the Control o	nent model	m that is pr		d certified?
	s a content or function functionality in change b. Class 2			d. Class 4	hances local
	mportant when the sol		and from an		to another?
a. Maintenance	b. Operational	c. Transitio	1 //	d. All of the	
software project.	ct manager i <mark>s a perso</mark> n	who underta	kes the res	ponsibility	of carrying out the
a. True	b. False				
Q.22 From the followi a. Counting the lines of c. Both A and B	ng methods which size delivered code	of the softwa b. Counting d. None of t	delivered f		
	tool that depicts project n events of project in bo b. Gantt chart		nd consecut	•	

Agile Software Development

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

2. Agile Software Development is based on



a) Incremental Development	b) Iterative Development	c) Linear Developm	ient d)
Waterfall Model	e) Both a and b		
3. Which on of the following is not	an agile method?		
a) XP b) 4 6		.UP	
4. Agility is defined as the ability	of a project team to respond ra	pidly to a change.	
) False		
5. How is plan driven developme	nt different from agile developr	ment?	
	a process of negotiation during		process.
b) Specification, design, impleme	entation and testing are interlea	ved	
c) Iteration occurs within activit	_		
6. How many phases are there in S	Scrum?		
a) Two b) Three c) Fo	our d) Scrum is an agile met	hod which means it does no	ot have phases.
7. Agile methods seem to wo	rk best when team members ha	ve a relatively high skill	
level. a) True	b) False	4	
8. Which of the following doe	s not apply to agility to a softwa	are process?	
a) Uses incremental product delive	ery strategy	b) Only essential work pro	oducts are
produced			
c) Eliminate the use of project pla	nning and te <mark>sting</mark>		
9. Which three framework activities	es are pre <mark>sent in Ad</mark> aptive S <mark>oftw</mark>	<mark>/are D</mark> evelopment (ASD)?	
a) Analysis, design, coding b) require <mark>ments ga</mark> thering, a <mark>dapt</mark>	<mark>tive c</mark> ycle planning, iterative	development
c) speculation, collaboration, lear	ning		
10. In agile development it is more		at meets the customers' ne	eds today than
worry about features that mig			
	False		
11. Agile is			
a) Sequential b) Iterat	ive c) Incrementa	d) Both b	& c
12. What is/are advantage/s of	Agile testing?		
a) Saves time	. Bue teetB.		
b) requires less planning and cr	eates less documentation		
c) Regular feedback from end u			
d) Solves issue in advance by da			
·	ny meeting		
e) All the above			
13. Who will test the system in	agile development?		
a) software tester b)	Developer c) Busine	ess Analyst d) A	ll the above
14. When acceptance testing is	performed in Agile developn	nent?	
a) On request of customer	b) After system is re	eady	
c) At the end of each iteration	•		

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_	velopment, lei b) False	ngthy documentatio	n is created. a)	
a) Domain kno b) Keen to lea	owledge rn and adopt r	oy Agile tester? ew technology ho maintains good	relationship with develop	oment teeam d) All the
17. Who is res	ponsible for sp	orint meeting?		
a) Product owr	ner	b) Scrum team	c) Scrum master	d) All the above
18. Who prior	itizes product	backlog?		
a) Product owi	ner	b) Scrum team	c) Scrum master	d) All the above
19. Arrange following scrum practices according to the order in which they are carried out. 1. Sprint planning 2. Daily scrum meet 3. Sprint retrospective meet 4. Sprint review meet 5. Sprint a) 1,5,2,3,4 b) 1,5,2,4,3 c) 1,2,5,4,3 d) 1,3,2,4,5 UML – 1 1. Which of the following UML diagrams has a static view? a) Collaboration b) Use case c) State chart d) Activity 2. What type of core-relationship is represented by the symbol in the figure below?				
←				
a) Aggregation		b) Dependency	c) Generalization	d) Association
3. Which core e	element of UML	is being shown in the	figure?	

c) Class

a) Node

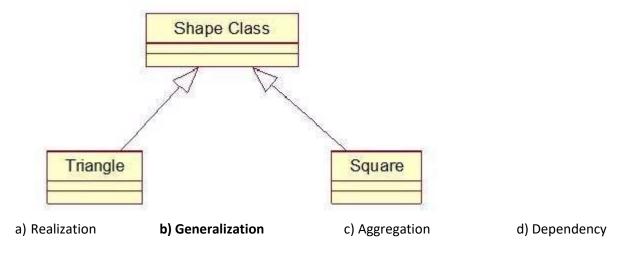
b) Interface

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

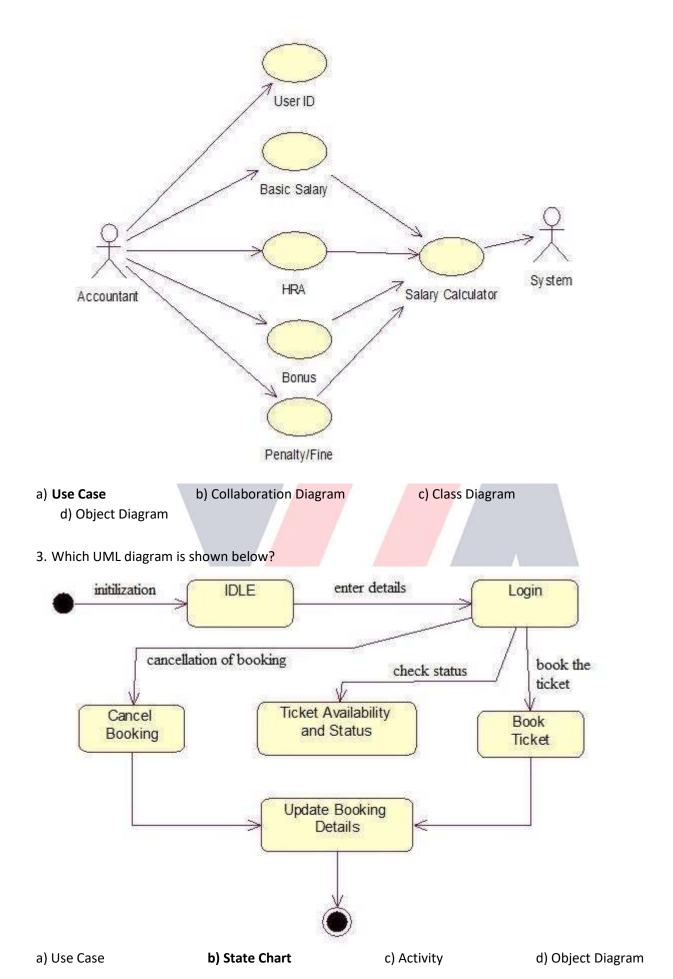
d)

nine

2. Which UML diagram is shown below?

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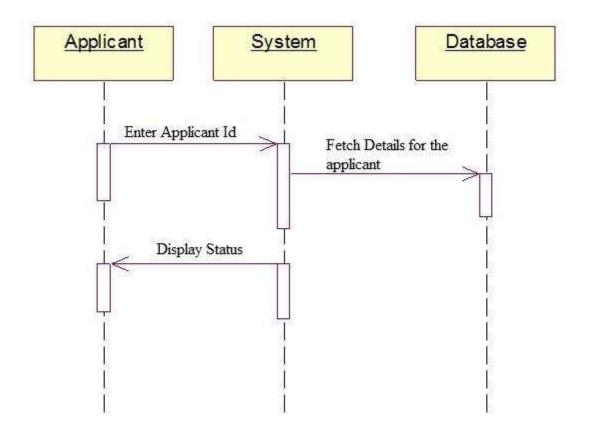


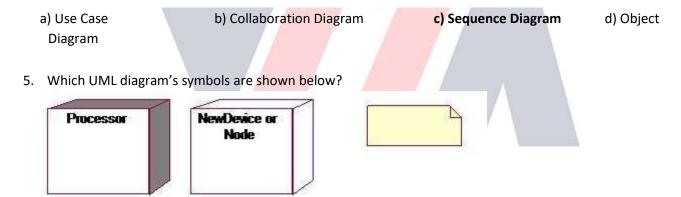


4. Which UML diagram is shown below?

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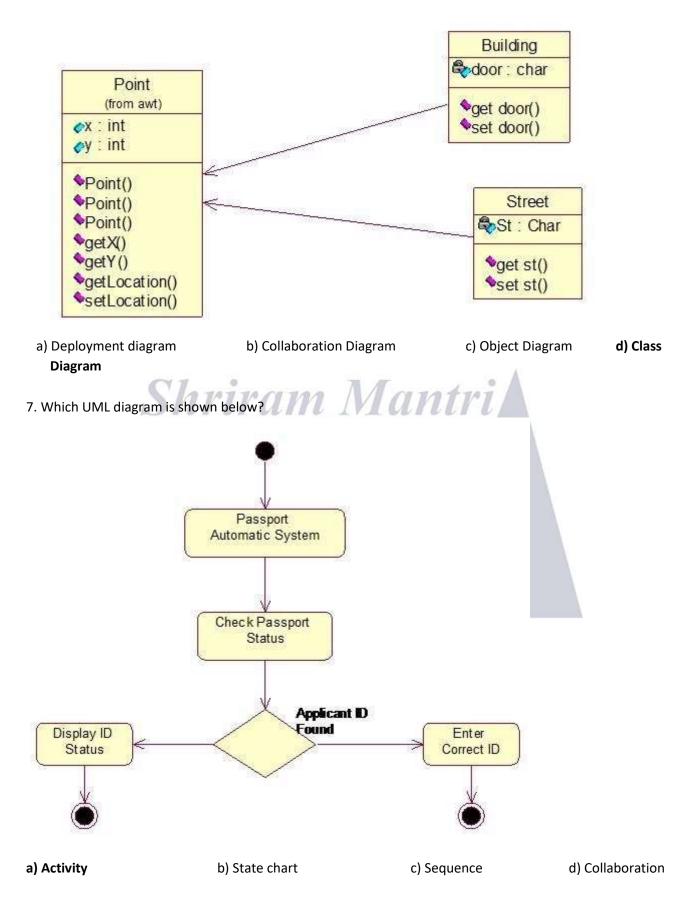


- a) Deployment diagram
 Diagram
- b) Collaboration Diagram
- c) Component Diagram
- d) Object

6. Which UML diagram is shown below?

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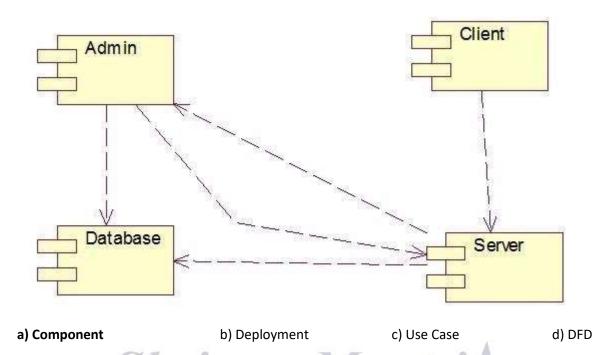




8. Which UML diagram is shown below?

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Software Testing Techniques – 1

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

A stage of all projects d) None of

mentioned

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

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

- 5. White Box techniques are also classified as
- a) Design based testing

- b) Structural testing
- c) Error guessing technique

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

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

these

8. What are the various Testing Levels?



a) Unit Testing mentioned	b) System Testing	c) Integration Test	ting d) All of the
9. Boundary value analys	is belong to?		
a) White Box Testing	b) Black	Box Testing	
10. Alpha testing is done	at		
a) Developer's end	b) User's	end	
So	ftware Testing	Technique	s-2
1. The testing in which co	ode is checked		
a) Black box testing testing	b) White box testing	c) Red box test	ing d) Green box
2. Testing done without p	planning and Documentation is	s called	
a) Unit testing b)	Regression testing	c) Adhoc testing	d) None of the mentioned
3. Acceptance testing is a	also known as	Maratri	· 🛕
	b) White box testing	c) Alpha Test	ing d) Beta testing
4 Which of the following	is non-functional testing?		
a) Black box testing	b) Performance testing	c) Unit testing	d) None of the mentioned
5. Beta testing is done at			
a) User's end	b) Develo <mark>per's end</mark>		
6. SPICE stands for			
	provement <mark>and Com</mark> patibility <mark>I</mark>	Determination Page 1	
b) Software Process Imp	provement and Control Deterr	mination	
•	provement and Capability De	termination	
d) None of the mention	ea		
7. Unit testing is done by			
a) Users	b) Developers	c) Custo	omers
8. Behavioural testing is			
a) White box testing	b) Black box testing	c) Grey	box testing
O Which of the following	is block boy to sting		
9. Which of the followinga) Basic path testing	b) Boundary value analy	vsis	
c) Code path analysis	d) None of the mention		
	ng is not used in measuring the		
a) KLOC	b) Function Points	c) Size of module	
	Life Cycle	Models	



a) 100-200	b) 200-400	c) 400-1000	d) above	1000
 RAD stands for Relative Application Rapid Application Rapid Application 	Development			
3. Which one of the fo a) Build & Fix Model	ollowing models is not su b) Prototyping		ng any change? O Model	d) Waterfall Model
 Which is not one of a) Horizontal Prototy Prototype 	the types of prototype or the types b) Vertical Pr	· · · ·	gonal Prototype	d) Domain
5. Which one of the fo a) Quick Design	ollowing is not a phase o	f Prototyping Model? c) Prototype Re	efinement	d) Engineer Product
6. Which of the follow a) No room for structo c) Maintenance is pra		b) Code soon	75 77 71 / 100	ble & unchangeable ojects
7. RAD Model has				
a) 2 phases	b) 3 phase	c) 5 phases	d) (6 phases
			d) Both	n a & c.
9. SDLC stands for				
a) Software Develope c) Software Design Lit			n Development Lif n Design Life Cycle	-
10. Which model can a) Waterfall Model	be selected if user is invo b) Prototyping	•	f SDLC? A D Model	d) both b & c
Fı	ınction Orie	nted Softwa	re Desig	m

- 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



3.	Function-oriented design to	echniques starts with fo	unctional req	uirements specified ir	1
a)	SDD	b) SRS	c)	None of the mention	ed
4.	Structured Analysis is base	d on the principles of			
a)	Top-down decomposition a	pproach		b) Divide and cor	nguer principle
-	Graphical representation o	• •		d) All of the men	
5.	Which of the following is/a	re true with respect to	functions?		
a)	A function such as "searc	h-book" is represented	using a circle	2.	
b)	Functions represent some	e activity			
c)	Function symbol is knowr	n as a process symbol o	r a bubble in	DFD	
d)	All of the mentioned				
6.	Which of the following is no	ot a use of a CASE tool?	?		
a)	Support structured analysis	and design (SA/SD)		b) Maintains the data	dictionary
c)	Checks whether DFDs are b	alanced or not		d) It complies with the	he available system.
7.	What DFD notation is repre	esented by the Rectang	1000		
a)	Transform b)	Data Store	c) Function	ntri d) Nor	e of the mentioned.
	Structural decomposition is		ion calls.		
a)	True b)	False			
9.	A function-oriented design		s in the syster	<mark>n rat</mark> her than the data	a processing activities.
a)) True	o) False			
10). In DFDs, user interactions	with the system is den	oted by		
) Rectangle	d) T	riangle
		Project M	anage	ment	
1.	Which of the following is no	ot project managemen	t goal?		
a)		, ,			
b)		_	greed time.		
c)	Maintaining a happy and		_		
d)	• ,	_	opinent team	•	
ω,	Avoiding costainer comp				
2.	Project managers have to a	issess the risks that ma	y affect a pro	ject.	
a)	True	b) False			
	Which of the following is n			_	
a)	Specification delays	b) Product comp	etition	c) Testing	d) Staff turnover
	The process each manager	follows during the life			
a)	, ,			er life cycle	
b)	c) Project Management L	ite Cycle	d) All of tl	ne mentioned	



a) very low	b) low	c) moderate	d) high	e) very high
	software costs	meters that you shoul	d use when co	mputing the costs of a
b) effort costs (the	costs of paying software	e engineers and mana	gers)	
7. Quality planning	is the process of develo	ning a quality plan fo	r	
a) team	b) project	c) customers	•	d) project manager
8. Which of the foll a) Internship mana management	_	· -	on managemen c) Version man	t of a software system? agement d) System
9. Identify the sub- a) Process introduc	process of process impr tion b) Process ar	The state of the s	rocessification	d) Process distribution
10. An independen quality attributa) True		t between the attribu	te that can be i	neasured and the external
	Pro	oject Plann	ing	
Which of the foll a) Project size uncertainty	owing is an important <mark>fa</mark> b) Planning pro <mark>cess</mark>		1/1	d efficacy of estimates? d) Degree of structural
	the data and control to b	•		
a) Planning processc) External hardwar	b) Softwar re d) Project c	•		
e, External narawai	d) Troject c	Omplexity		
	ependent investigators he can be applied to establ	•	• •	proach to requirements
a) JAD	b) CLASS	c) FAST	d) N	one of the mentioned
4. CLSS stands for				
a) Conveyor line so	orting system	b) Conveyor lii	ne sorting softv	vare
c) Conveyor line so	rting speed	d) Conveyor line	e sorting specif	ication
5. The project plans is known as	ner examines the staten	nent of scope and ext	racts all import	ant software functions which
a) Association	b) Decomposition	n c) Planning	process	d) All of the mentioned
6. The environmen	t that supports the softy	ware project is called		
a) CLSS	b) SEE c)	FAST d) CE	BSE	
7. Which of the foll	owing is not an option t	o achieve reliable cos	t and effort est	rimate?

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

٠,	, ,	imposition teeliniques to Ber	• •	
d)	The ability to translate th	e size estimate into human	effort, calendar time, and do	ollars.
8.	What can be used to compl	ement decomposition techn	iques and offer a potentially	valuable estimation
	approach in their own rigl	•	,	
a)	Automated estimation to			
•	Empirical estimation mod			
-	Decomposition technique			
-	·	on tools and Empirical estin	nation models	
9.	Which of the following is no	ot achieved by an automated	estimation tools?	
a) F	Predicting staffing levels	b) Predicting s	software cost	
c) P	redicting software schedule	es d) Predicting	client's demand	
10	. Software project estimation	on can never be an exact scie	ence, but a combination of go	ood historical data
an	d systematic	techniques can imp	prove estimation accuracy. a	ı) True
b)	False	rivam V	nd Product - 2	
	Cofty	Drococco	nd Droduct	1
	3011V	vare Process a	na Product	L
1.	Which one of the following	is not a softwa <mark>re proces</mark> s qu	ality?	
a)	Productivity	b) Portability	c) Timeliness	d) Visibility
2.	&	are t <mark>wo kinds o</mark> f softw	va <mark>re produc</mark> ts.	
a)	CAD, CAM	b) Firmwar <mark>e, Embed</mark> ded	c) Generic, Custo	omised
3.	Software costs more to ma	intain th <mark>an it doe</mark> s to deve <mark>lo</mark> r	0.	
a)	True	b) False		
		V		-
	_	is not an application of emb	edded software product?	
-	key pad control of a securit	• •		
	pattern recognition game			
c)	digital function of dashboa	d display in a car		
5.	Purpose of process is to del	iver software		
a)	in time b) with	n acceptable quality	c) that is cost efficient	d) both a & b
6.	The work associated with so	oftware engineering can be o	categorized into three generi	c phases,
		• •	kity namely thep	•
	=	hase which focuses on how a		ich focuses on

a) Communicationb) Planningc) Modelling & Constructiond) Deployment8. Process adopted for one project is same as the process adopted from another

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

c) 3, 2, 1

project.

a) True

a) 1, 2, 3

b) False

change. i. support ii. development iii. definition

b) 2, 1, 3

d) 3, 1, 2



Which one of the following is no activities and help team mana	•	·	•	ss framework
a) Re-usability management	b) Risk managen			
c) Measurement	d) User Reviews		tware quality a	issurance
10. Four types of change are enco that falls into such category?	untered during the sup	port phase. Which	one of the follo	owing is not one
a) Translation b) Cor	rection	c) Adaptatio	on	d) Prevention
Softwa	re Process a	and Produ	uct _ 2	
1. If a software production gets				tch un
	Jenina Schedule, one Ca	an add more progra	allillers allu ca	ten up.
a) True b) False	alitu fuana airran halar			
2. Choose an internal software q	=		.11	
a) scalability b) usal reliability	c) r	eusability	d)	
Tellability	0 76	All controls	- A	
3. RUP stands for	reated by a division of	<u> Lantr</u>	'7 A	
a) Rational Unified Program, IBM	reaced by a division of _	b) Rational Unif		ocyc
c) Rational Unified Process, Micro	soft	d) Rational Unit		
c) National Offined Frocess, Wilcro	3011	uj Kationai Omi	led Process, ib	171
4. The DLID is normally described	rom throe paranastives	dunamia statia 9	practice What	t doos statis
4. The RUP is normally described f			practice. wriat	. does static
perspective do? a) It shows to				
b) It suggests good practices to b		ess.		
c) It shows the phases of the mo	der over time.			
E Electrical dell'evolution of	1.1.6			
5. The only deliverable work pro		oject is the working	g program. a)	
True b) Fal	se			
6. Which phase of the RUP is use		•		
,	laboration	c) Construction	d))
Inception				
7. Which are of the following is a		for ooftware was	: f t	
7. Which one of the following is no				
a) Software Verification	b) Software Validation		e design and in	nplementation
d) Software evolution	e) Software specification	on		
8. A general statement of objective	res is the major cause o	f failed software		
efforts.	es is the major cause o	Tanca software		
a) True	b) False			
.,	-,			
9. The longer a fault exists in softw	vare			
a) the more tedious its removal be		b) the more cos	stly it is to dete	ct and correct
c) the less likely it is to be properly		d) All of the m	-	

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10. Component-based	d Software Enginee	ring allows faste	er delivery.	
a) True	b) Fa	lse		
11. Arrange the follow		_	Engineering Process	
	esign iii. Install iv. S	Specification v.		
Manufacture vi. N			12.45.42.6	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
	Requir	rement l	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	ent?		
a) Portability	b) Maint	ainability	c) Availability	d) Both a and b
3. Which one of the fo	ollowing is not a ste	o of requiremen	nt engineering?	
a) Elicitation	b) Design	,	c) Analysis	d) Documentation
 4. FAST stands for a) Functional Applicate c) Facilitated Applicate 5. QFD stands for a) quality function des c) quality function dep 6. A Use-case actor is a) True 	ion Specification T	b) quality fu	b) Fast Application d) None of the munction development mentioned	
7. The user system r a) SDD	equirements <mark>are th</mark> b) SRS		n document? ODD	
8. A stakeholder is an a) True	yone who will purc b) False	hase the comple	eted software system ur	nder development.
9. Conflicting requirer version is the righ		in Requirement	Engineering, with each	client proposing his or her
a) True	b) False			
10. Which is one of that a) Entry level personn software	•	stakeholder fron level stakeholde		d) Users of the

Software Metrics

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



a) help in asse the	essment of status of ong	going project.	b) Track potential risk	c) both a and b	b d) none c
mentioned					
2. Which of th	ne following does not af	fect the softw	vare quality and organiza	tional performanc	e?
a) Market	b) Product		c) Technology	d) People	
3. The intent	of project metrics is:				
a) Minimizatio	n of development sched	dule	b) For strategic pu	ırposes	
c) Assessing pr	oject quality on ongoing	g basis	d) Both a and c		
4. Which of th	ne following is not a dire	ct measure o	f SE process?		
a) Efficiency	b) Cost		c) Effort Applied	d) All of the r	nentioned
5. Which of th	ne following is an indired	ct measure of	product?		
a) Quality	b) Comple	xity	c) Reliability	d) All of the N	Vientioned
6. In size oriei	nted metrics, metrics ar	e developed k	pased on the		
a) Number of memory (nber of user i	nputs c) Number of	lines of code	d) Amount of
7 Which of th	ne following is not an int	formation dor	main required for determ	nining function noi	nt in EDA2
a) Number of	V =	mber o <mark>f user l</mark>		f external Interfac	
Number		illiber of user i	inquiries ej Number o	T CALCITION INTERNAC	cs u ,
Number (SI CITOIS				
8. Usability ca	n be measured in terms	of:			
a) Intellectua	l skill to learn the systen	n			
b) Time requi	red to become moderat	e <mark>ly efficie</mark> nt in	n sys <mark>tem usag</mark> e		
c) Net increas	se in productivity			7	
d) All of the n	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 Cha		· ·	of the mentioned		
	emoval efficiency (DRE)	•			
-	ound before software d	•	b) D – defects found afte	r delivery to user	
c) Both E and I	D		d) Varies with project		
	Softv	vare M	aintenance -	- 1	
1 Software M	laintenance includes	vare m	amtenance	•	
a) Error correc		h) Fnh	ancements of capabilitie	S	
-	obsolete capabilities		e mentioned	-	
2. Maintenan	ce is classified into how	many catego	ries?		
a) Two	b) Three	c) Fou	r d) Five	9	

PG DAC Feb 20 Software Application Development Tools & Techniques



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

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

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a) It helps in developmer c) both a and b	it of software	d) none of the	e mentioned	ware	
6. What are legacy syste a) new systems	ms? b) old systems	c) under-de	veloped systems	d) none	of the mentioned
7. Which of the followin a) Beginner's Guide	_	user documentation guide	ation? c) Reference	Guide	d) SRS
8. Which of the followin a) SRS -Software Require System Overview	_		n? Software Design Do	cument	c)
9. The process of transformal Forward engineering	_	to source code is erse engineering		ering	d) Reconstructing
10. How many stages ar a) Two Software Co 1. Which of the followin	b) Three onfigurati	c) Fi	agement -	d) Five - 1	aintenance?
a) computer programs c) data d) All of the men	b) docur	W / / /	ibe the computer p	A	
2. Which is a software compeding justifiable	change?				
•) Source code	c) Data		Λ	of the mentioned
3. Software Configurationa) A single software configurationb) A separate configurationc) Software Configuration	onfiguration mana ation management	gement team for team for	or the whole organi project	zation	
4. What combines proce created during the sa) Change control					bjects that are
5. What complements the are generally not co	nsidered during re	eview?		-	r characteristics that
a) Software configuratioc) Baseline	n audit	d) None of the	onfiguration manag e mentioned	ement	
6. Which of the followin compiling and linkin	-		-	data, and li	braries, and then
a) System buildingc) Change management	b) Release r	management management			
-, cge management	a, 1010111				

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

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a) Tracking of change proposalsc) Tracking the releases of system versions to customers				versions of s of the mention	ystem components ned
8. Which of the following i a) Configuration item iden c) Release management	tification b) F	nfiguration N Risk manager) Branch man	ment	ity?	
9. The definition and use of a) ISO 9000	of configuration mar b) CMM	nagement sta c) CMM		l for quality o	
10. What involves preparing been released for custa) System building	_		and keeping track	-	n versions that have
management	2,		o, enange mane		5, 1 5.6.6.N
	re Configu				
1. Which of the following p maintained?a) Code line	b) Configuration	20 1/	c) Version	i A	ecorded and Workspace
2. Which of the following	process is concerned	d with analys	ing the costs and b	<mark>oene</mark> fits of pr	oposed changes?
a) Change management	b) Vers	i <mark>on man</mark> agen	nent		
c) System building	d) R <mark>ele</mark> a	<mark>ase ma</mark> nagen	nent		
3. Which of the following i	s not a Versio <mark>n man</mark>	agement fea	ture?		
a) Version and release iden	tification b) Build script	generation		
c) Project support	d)	Change hist	<mark>ory rec</mark> ording	//	
4. Which method recomm testing to discover sof	tware problems?	-		arried out wit	th automated
a) Agile method		llel compilati			
c) Large systems method	d) All of	f the mentior	ned		
5. Which of the following i	s not a huild system	feature?			
a) Minimal recompilation	•	imentation g	eneration		
c) Storage management	d) Repo	_			
			:		
6. Which of the following i	b) Code line	-	ions that make up Baseline	-	o of the above
a) Version	b) code lille	C)	י שמשכוווופ	u) NOI	ne of the above
7. Which of the following i	s a configuration ite	em?			
a) Design specificationAll of the mentioned	b) Source code	c) Te	est specification	d) Log inf	formation e)
8. Which of the following i			stem		

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



c) an installation pro mentioned	gram that is used to	o help install the system on targe	t hardware d) all of the
9. A sequence of base	lines representing d	lifferent versions of a system is k	nown as
a) System building	b) Mainline	c) Software Configuration Iten	
10. Which of the follow version in an exist	•	efined by the statement "The cre	ation 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 team	d) Project manager
	=	e of a purchased component to p	-
a) Product risk	b) Project risk	c) Business risk	d) Programming risk
	ing term is best def different priorities	ined by the statement: "There w	ill be a change of organizational
-	b) Technology chan		d) Product competition
	ing term is best def uperseded by new t	ined by the statement: "The und technology."?	erlying technology on which the
a) Technology change		ct competition	
c) Requirements chang	ge d) None o	f the mentioned	
5. What assess the risk risk?	cand your plans for	risk mitigation and revise these	when you learn more about the
a) Risk monitoring	b) Risk planni	ng c) Risk analysis	d) Risk identification
6. Which of the follow developed?	ing risks are derived	d from the organizational enviror	nment where the software is being
a) People risks	b) Technology ri	isks c) Estimation risks	d) Organizational risks
7. Which of the follow develop the system	_	d from the software or hardware	technologies that are used to
a) Managerial risks	b) Technology	risks c) Estimation ris	ks d) Organizational risks
	ing term is best def tion hiding in the de	ined by the statement: "Derive to esign."?	raceability information to
a) Underestimated de None of the above	velopment time	b) Organizational restructuring	c) Requirements changes d)
9. Which of the follow	ing strategies mear	ns that the impact of the risk will	be reduced?
a) Avoidance strategie		ation strategies	
c) Contingency plans	d) All of the	e anove	

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10. Risk manager management	ment is now recogr t tasks. a) True		e most important	project b) False	
	as 100% likelihoo	d. True or false.			
a) True	b) False				
12. Risk manage	ement is responsi	bility of the			
a) Customer	b) Investor	c) Developer	d) Project te	am e) F	Production team
13. Risk is expre a) True	essed in terms of b) False	probability and i	mpact.		
14RE represer	nts what				
a) Risk expense	b) Related	d expense	c) Risk expos	sure	d) Risk evaluation
website? a) Shortage of t b) Many change c) Delay in fixin d) Failure to tra e) All of the abo 16. Which of the a) Risk avoidance c) Risk continger	esters es in SRS that cau g defects by deve ensfer a user to so eve e following techn e technique ncy technique ociated with prod	sed changes in to elopment team ecure gateway v ique will ensure b) Risk N d) All of	est cases while paying that impact of r Nitigation technic the above	isk will be less	
c) non-availabilit	y of test environi	ment	d) Test object		
18. Risk manage a) True	ement is importa b) F	nt part of a proje alse	ect management	t. True or false	s.
• •	ment of a systen y. Who is going to b) Develo	determine how		mper the orga	
10. Which is/are a) Mitigate	e ways to deal wi b) Contin		Transfer d	l) 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) Al
- d) All of the mentioned

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		nciple that allow the user to	maintain control?
a) Provide for flexible	interaction ion to be interrupt-abl	a and undo abla	
•	ernals from the casual		
•		that appear on the screen	
u) besign for direct in	teraction with objects	that appear on the screen	
3. Which of the follow	ving is not a user interf	ace design process?	
a) User, task, and env	rironment analysis and	modelling	
b) Interface design			
c) Knowledgeable, from	equent users		
d) Interface validation	1		
4. When users are inv	olved in complex tasks	s, the demand on	can be significant.
a) short-term memory	· ·	b) shortcuts	
c) objects that appear		d) all of the mentioned	
.,,		.,	
5. Which of the follow	ing option is not cons	idered by the Interface desi	ign?
a) the design of inte	rfaces between softwa	are components	777.
b) the design of inte	rfaces between the so	ftwa <mark>re and human produce</mark>	ers and consumers of information
c) the design of the	interface between tw	o computers	
d) all of the mention	ied		
6. A software might a	llow a user to interact	via	
a) keyboard command	s b) mo	use movement	
c) voice recognition co	ommands d) all	of the mentioned	
7. A software enginee	er designs the user inte	erface by applying an iterati	ve process that draws on predefined
design principles.	(097		
a) True	b) False		
8. What incorporates	data, architectural, in	terface, and procedural rep	resentations of the software?
a) Design model	b) user's model		d) system image
9. What establishes th	ne profile of end-users	of the system?	
a) Design model	b) user's model	·	d) system image
, 0	•	,	, ,
	ne outward manifestat describe system syntax	•	system, coupled with all supporting
a) Mental image	b) interface design	c) system image	d) interface validation.
		.	·
	_		
	D	ev0ps	
Q.1) Which one of t	the following methor	dologies does least impac	t the establishment of DevOps

b) Agile Software Delivery.

methodology?
a) Lean Manufacturing.



- c) Waterfall Software Delivery.
- d) Continuous Software Delivery.
- Q.2) In typical IT organizations why is there a typical conflict between development and operations teams?
- a) Because they come from different backgrounds.
- b) Because development team knows more about software products and services.
- c) Because operations team knows more about test and production environments.
- d) Because they have conflicting business goals and priorities.
- Q.3) Which one of the following techniques makes DevOps a successful methodology to develop and deliver software?
- a) DevOps enables you to organize your teams around your organizational mission.
- b) DevOps enables you to create your software with built-in quality and monitoring.
- c) DevOps enables you to quickly identify, fix and learn from errors.
- d) All above choices.
- Q.4) Which one of the following statements about DevOps is incorrect?
- a) DevOps is only suitable for start-up companies.
- b) DevOps is suitable for brownfield software products and services.
- c) DevOps is suitable for greenfield software products and services.
- d) Some of the most exemplary DevOps in<mark>itiatives</mark> 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 vour 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.

