PG DAC Question Bank



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 In use-case diagonal Oval UML supports Earlier 	b) Box	em illustrated by? c) Circle ases of software c c) Middle	levelopment	d) Triangle II	
3. Requirement and a) Delivers a system b) Organizes abstract c) Builds a bridge kd) Uses experiment	n in a series of vaction ection petween user ar	nd developer	user requirements	s	
4. What is type of s a) Adaptive	oftware mainte b) Corrective		tive d) O	bsolescence	
5. Which of the following requirement specific	_	of SDLC involves of	hoosing a system	structure capable of sa	tisfying
a) Requirement an	alysis	b) Design	c) Coding	d) Testing	

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6. Pick up the odd one out of the following a) Data flow diagram	b) Object identification			
c) Structural decomposition	d) E-R diagrams			
7 Lifecycle model describe how sof software are actually developed.	tware system should be developed and describe how			
a) Prescriptive & Descriptive c) Descriptive & Prescriptive	b) Prescriptive & Definitive d) Descriptive & Intuitive			
 8. The requirement phase consist of 1) Problem analysis 2) Requirement speciment 3) Requirement validation 4) Problem validation a) A, B, C b) A, B, C, D c) A, B, 				
9 is a method for estimating the soft a) COCOMO b) Function Point Analysis	ware c) Use Case Estimation d) All of the above			
 10. The elements of the software architecture of a 1) Software components 2) Class diagrams 3) Connectors expressing relationships between sof 4) entity relationship diagrams 				
a) 1 & 2 b) 1 & 3	c) 1, 3 & 4 d) 1, 2, 3 & 4			
11. Ability of a software to perform intended functi a) Efficiency b) Robustness c) Relia	on with minimum consumption of computing resources ability d) Correctness			
12. Ability to deal with exceptional conditions e.g. i etc.	nvalid input, improper handling, power failure, disk cras			
a) Efficiency b) Robustness	c) Reliability d) Correctness			
 13. The type of testing carried out along with codin a) System testing b) Unit testing 14. Maintainability is the ease with which a softwar a) Be corrected if an error is encountered b) Adapted if its environment changes c) Enhanced if the customer desires a change in rec d) All of above 	c) Pretesting d) Stress testing re can			
a) Corrective Maintenance	e to remove bugs or defects in the software is called b) Adaptive Maintenance			
c) Regressive Maintenance	d) Perfective Maintenance			
16. RAD stands for a) Rapid Application Development c) Random Application Driver	b) Random Access Disc d) Rapid Alignment Disc			
17. Which of the following is not true about Compoa) It is similar to the Spiral Model				

b) The technical framework for this model is provided by object technologies

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c) Candidate d) Its produc		extracted fron	n class librai	y or develope	ed		
•	t show detail	not true abo s of the funct ntities of the	ioning	b) It sho		outs & outputs o	•
19. Data Items i		· ·	-				
a) Input data		b) Data flow	/S C	Data stores	d) All	of the above	
20. The ways of a) Requirement c) Both a and b	s definition	pecifications :	b		ts specificatio	on	
	ents related			oftware cust		red system is to	be used
c) Both a and d) None of th	•						
22. Functional I a) Coupling	=	e is not achiev dularity		nation Hiding	d) Any	of the above	
23. If two modu a) Normal C o	· · · · · · · · · · · · · · · · · · ·		_		ol information rol Coupling	•	ibit nmon Coupling
24. Which of th a) Data Flow D			ool for softw ructure Cha	_	c) Decision Tr	ee d) All	of the above
25. Changes ma a) Perfective ma c) Adaptive mai	aintenance	ftware to corr	b	uncovered af) Regressive r) Corrective r	naintenance	called	
26. Arrange the Estimation	_	the correct so		software estir	nation a. Sche	edule Estimatio	n b. Effort
a) B, C, A, D	b) C, A	A, B, D	c) D, B, A	,, C	d) A, C, D, B		
27. Final Functions a) Assembly	on point coui b) C	nt calculated c) C-		vill result in th) Visual Basic		OC if implement	ed in
28. Project sche			_	\		d\ Barb barad	
a) DFD and ERD		b) Bar chart	C _i) Activity char	t	d) Both b and	c options
29. Most of the a) Risk analysis	project plan	s should inclu b) Project o		c) Proje	ect schedule	d) All	of the above
30 sl a) PERT chart	nows the dep b) Bar		etween the o		rities making ι d) Pi c		

31. Chief Programmer Teams are suitable for projects

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a) With research oriec) With high creativity		b) With high i d) None of the	•	
32. Judging the seriou a) Risk analysis	usness of a risk by b) Risk Pr	evaluating its probability a ojection c) Risk	along with its cons Estimation	sequences is called d) All of the above
33. The RMMM plan a) Feasibility Study	is generally includ b) Projec		Document	d) Project Legacy
34. Invalid data Rect(a) True) puts WM_PAINT b) False	message in message queu c) Not Always		
35. Update Window() a) True	paints the client b) False	area. c) Not Always		
36. HINSTANCE type (a) True	variable stores id b) False	of running application c) Not Always		
played.	LOG message is so b) False	ent to the dialog box proce	dure immediately Always	y before a dialog box is is
a) True	D) Faise	c) Not	Always	
38. Send Message is r a) True	not directly send t b) False	o the window procedure. c) Not Always		
39. Icon is a Text reso a) True	ource. b) False	c) Not Always		
40. Sub classing mean	ns changing the bo	haviour of controls.		
a) True	b) False	c) Not Always		
41. CALLBACK functional True	ons are called by the b	ne operating systems. c) Not Always	i	
42. WINAPI is not rela	ated to calling cor	ventions.		
a) True	b) False	c) Not Always	I	
43. Which of the follo a) Choosing an ic c) Choosing a databa	b	s provided by a common d Choosing a network drive. Choosing a font.	_	
a) Send Messageb) Send MessageC) Send Messageto any thread.	is used for local of can only be used can only send me		e issued for remo hile Post Message hread, while Post	•

45. Menu is -----



a) GDI Object	b) Resource	c) Picture	
a) dbi object	b) Resource	c) Ficture	
46. Following is not to a) Screen Device Con c) Client area Device		b) Window Device Context d) View Device Context	
	is created on b) Stack , heap	&Mode less Dialog Box is cre	ated on
48. Which of the folloa) Menu	owing are resources. b) Bitmap c) Status Bar Icon	
49. f	unction creates model di	alog box	
			d) Unknown
	return type of window prodow b) LRESU		
		API call is used. ng Class() c) Settling()	
	of interface errors are: b) Interface miss	understanding c) Tim	ning errors
53 a) WM_PAINT	is first message pa b) WM_CREATE	ssed to window procedure. c) WM_SHOW	d) WM_COMMAND
54 f a) Create Dialog()Dia	unction creates modeles log() b)Create	s dialog box. Dialog Box() c)Dialog Box	()
55. Write Windows n	nessages in higher order		
1. WM_TIMER a) 1, 2, 3, 4, 5		. WM_LBUTTONDOWN 4. Ser c) 2,3,4,5,1	
56. Write steps to cre1. Initialise and Regis2. Create window3. Display Window4. Message loop5. WndProc	eate standard windows a ter Window class	pplication	
a) 1 , 2 , 3 , 4 , 5	b) 2, 3, 4, 5, 1	c) 3 , 4 , 5 , 1 , 2	d) 4,5,1,2,3
· -	age() to process message	ge loop comprising of Get Message es from the message queue.	e(), Dispatch Message() and
a) True	b) False	c) Not always	
58. Get DC() is used t WM_PAINT me		text handle for the windows clien	t area when processing a
a) True	b) False	c) Not always	

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be

	table key is pressed then WM d in Parma.	_CHAR message will be generated and the ASCII code of the key will be
a) True	b) False	c) Not always
	_	M_MOUSEMOVE, WM_RBUTTONDOWN messages are generated that D (Param) consists of x and y coordinates of the mouse pointer. c) Not always
61. Predefir a) True	ned controls send WM_COMN b) False	MAND message whereas common controls send WM_NOTIFY message. c) Not always
62. A Device a) True	e Context is a GDI structure, w b) False	which deals with text and graphics. c) Not always
63. A Metaf a) True	ile is a collection of GUI funct b) False	ions that are encoded in a binary format. c) Not always
64. A Clipbo a) True	pard is used to transfer inform b) False	ation between applications or within application.
65. Win Ma a) True	in is an entry point for windov b) False	ws application. c) Not Always
66. Menu is a) True	GDI Object. b) False	c) Not Always
67. WINAPI a) True	is a API function which explication b) False	itly calls Operating System to run Window Procedure. c) Not Always
68. When fu a) True	7 . 7 .	keyboard that time WM_KEYDOWN message is generated. c) Not Always
69. LRESULT a) True	Γ is a return type of Dialog Pro b) False	c) Not Always
70. Set Pixe a) True	l is used to draw a particular p b) False	oixel with a particular colour. c) Not Always
71. GetROP a) True	2 () is used to get the current b) False	drawing mode. c) Not Always
72. Palette i a) True	is an attribute of a device con b) False	text. c) Not Always
73. Window a) True	vs TIMER is not an input device b) False	e. c) Not Always
74. In MDI a a) True	application the default windov b) False	w procedure for main Window is Def. WindowProc (). c) Not Always



75. The WM_INITDIALOG medisplayed.	essage is sent to the dia	log box procedure imm	nediately befor	re a dialog box is
a) True	b) False	c) Not Always		
76. In MDI application child value	windows are created by b) False	mainframe windows. c) Not Always		
77. Cursor is a GDI Object. a) True	b) False	c) Not Always		
78. Sub Classing means chan a) True	ging the behaviour of t b) False	he controls. c) Not Always		
79. Colour Dialog box is a col a) True	mmon dialog box. b) False	c) Not Always		
80. If you want your window identifiera) RegisterClassEX (). c) CS_DBLCLICKS	in a window c		alling	e, you must include the
81 is a) Play Meta Play File F	s used to play the meta Play Meta file		ı Meta file	
82. To use the windows com a) COMMONCTL	mon controls always in b) COMCTL	c) COMMDLG	h header fil d) COM	
83. You can obtain the state a) Get Key State()	. , ,		unction. tate()	d) Get Status()
84. Entry point function of a a) Main()	DLL is b) DLL Main()	c) Start DLL()	d) Run DLL ()	
85 is a f	unction for creating a T b) Thread ()	hread. c) Create Thread Insta	nce ()	d) Create Thread ()
86. Pick up one of the testing a) Equivalence partitioning		<u>-</u>	_	esting
87. For drawing an Icon on cl a) Paint Icon()				d) Load Icon ()
88. You can create a logical f a) Create Font()	_	_		d) New Font ()
89. Dynamic Linked Library is a) Static time			d) Compile Tin	ne.
90. Menu is				



a) GDI Object	b) Resource	c) Picture	d) Item	
	used to check what type Format Available () ata ()		pboard. b) Is Clipboard Contain Da d) Set Clipboard Data ()	ta ()
92. Following option a) MM_ISOTROPIC	is not a mapping mode. b) MM_TEXT	c) MM_BITMAF	d) MM_HIM	IETRIC
93. Following is not a a) Screen Device Con c) Client Area Device			ow Device Context Device Context	
94. Following is not a a) R2_COPYPEN	•	c) R2_NOT	d) R2_YES	
95. Every instance of a) 4 GB	a running program is b) 2 GB		al address space. d) 64 MB	
96. Default size of he a) 2 MB	ap is b) 1 MB	c) 32 MB	d) None of the abov	ve
97. Following is not a a) Paste Bit ()	bitmap related API call b) Bit Blt ()	c) Stretch Blt ()	d) Pat Blt ()	
98. Windows Messag a) Visible property o c) Handle of window		b) Capti	on of window class of a window	
99 is a) WM_PAINT	a lowest priority messa b) WM_COMMAND		nming. (Win 32 Programm d) WM_TIMER	ing)
100. SetROP2() funct a) True	ion is used to change th b) False	e Raster Operation the c) Not Always	e Device Context.	
101. Create Enh Meta a) True	a File returns handle of b) False	the metafile c) Not Always		
102. Clipboard can st a) True	ore 'n' no of formats at b) False	a time. c) Not Always		
103. If 4 windows are a) True	e running in a single app b) False		4 Message Queues. c) Not Always	
the window.	ndow			are used to displa
a) Display Window()c) Show Window(),	• •	•	v Window(), Dialog Box() v Window () , Repaint Win	idow ()



-		=	s which	provides function to	user application to perform
certain task in th a) GDI32.DLL	ie windows envi b) KERNEL32.C		c) LISE	R32.DLL	d) WIN32.DLL
a) GD132.DEE	b) KERNELSZ.E	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	c, OSL	N32.DEL	a) Wildoz.DEL
106. The layer betwe a) Application Lay		on and differe b) GDI layer	nt types	s of hardware c) Data Layer Shell La	ayer
	_	nt mouse butto	·=	essed in the non-clien	
a) WM_RBUTTONc) WM_NCIRBUTT			•	I_NCRBUTTONDOWN RBUTTONDOWN	
o, <u>-</u> o			a,		
108. In order to recei a) 1DB_DBCLI		message a win DBLCLICK	dow mu	ust be created with w c) CS_DBLCLKS	hich window style? d) CS_DBLCLK
109. Which message	helps in detecti	ng mouse mov	ement	and finding mouse cu	rsor position
a) WM_MOUSEN			-	I_MOUSEPOS	
c) WM_ONMOU	SEMOVE		d) Non	e of these	
110 When child Con	trol in a dialog h	oox is activated	windo	w sends which messa	ge?
a) WM COMMAND		d Dlg Item		NOTIFY	d) WM_ACTIVATE
, <u> </u>	·			_	_
		er the message	is the c	lialog box or the wind	
a) Dlg Message()				b) Send Dlg Message	**
c) Translate Mes	sage()			d) Is Dialog Message	U
112. Which function	creates a modal	I dialog box?			
a) Create Dialog()	b) Dialo	og Box()	c) Do N	Modal()	d) Create Dialog Box()
442 M/h: -h ft:		laas dialaa kass	2		
113. Which functiona) Create Dialog()	creates a mode	b) Do Modal()		c) Dialog Box()	d) Create Dialog Box()
a) create bialog()		b) bo ivioual()		c/ Dialog Dox()	a) create blaids box()
114. Modal Dialog Bo	ox is destroyed b	y calling which	n functio	on?	
a) End Dialog()	b) Destroy Dia	log()	c) End	Dialog Box()	d) End Modal()
115. Which function	conde a moscad	o to controls in	va dialo	a hov?	
a) Send Dlg Item Mes		e to controls in	i a ulalo	b) Send Dialog Mess	age()
c) Send Dialog Item N	- "			d) none of these	-8-(/
	nction takes a p		Vindlas:	s structure as a param	neter
a) True 117. WM_CHAR is a	combination of	b) False WM_KEVIIP an	M/M	KEADOWN	
a) True		b) False	IG VVIVI_	KETDOWN.	
•		,			
118. Only Modeless I	Dialog box can b		ie scree	n.	
a) True		b) False			
119. The ID value for	the child windo	w is passed hy	Param	Parameter with the n	nessage.
a) True		b) False			
·		•			
120. In which messag	ge it is better to	initialize all the	e contro	ols with in the dialog b	oox.



a) WM_CREATE	b) WM_INITDIALOG	c) WM_INIT	d) Wi	M_COMMAND
121. The Copy Meta I a) Specified Fi c) Copy Meta	•	ent of a window-format eate Meta File py Data Get Meta File	Meta File to	
122. Translate Messa a) True	ge Detects a Keyboard action b) False	n that translates to an A	NSI Character	
123. Screen Coordina a) True	tes are pixels measured fron b) False	n the upper left corner	of the window	's client area
124. Select Object fur a) True	nction obtains an object fron b) False	n Device Context		
125. Create pen Retu a) True	rn handle to Old Pen b) False			
126. Which function (use to copy file from one Dev	vice context to another		
127. Device Context E	Bit Create Compatible Dc Cop	oy Copy Bit		*
128. Handle to BITMA a) HBITMAP	AP is b) HACCEL	c) HDC	d) HBMP	
129. To Create Thread a) Begin Thread	d Function used is b) Create Thread	c) do Thread	d) Cre	ate
130. WM_CREATE Me a) True	essage is generated after Wi b) False	ndow is Displayed		
131. The Thread Cont a) Setting Threa c) Resuming Th	•	rming the following act b) Suspending d) Terminatin	g a Thread	
132. Which values are a) 15	e used to Set thread priority b) -2 c) 4	d) -1		
133. To display a mod a) WM_SHOW	deless dialog which property b) WS_SHOW	u have to add in its reso c) WS_VISIBLE	ource files? d) WS_DISPL/	ΑY
134. A Mouse Click or a) WM_COMMAN	n Menu Bar generates: D b) WM_NOT	TIFY c) WM	I_CHAR	d) WM_MENUCLICK
135. Change in the size) WM_RESIZE	ze of the status bar generate b) WM_SIZE	es: c) WM_CHANGE	d) WN	/_COMMAND
136. Get Text Matrix() determines the physical dii b) Fa		rently selected	d in the DC.



137. Begin Paint() Prepares t a) True	he windows client area b) Fals			
138. Rectangle function take				
a) 2 Parameters	b) 5 Parameters	c) 4 Paramete	ers	d) None Of the Above
139. The Windlass Structure a) True	must be registered wi	th the window before b) False	it can be used t	to create a 1.window.
140. To halt the execution of a) Kill Thread()	a thread: b) Suspend Thread()	c) Terminate	Thread()	d) None of These
141. The following are the st a) Analysis	eps of SDLC b) Design	c) Testing		d) All of the above
141. The SDLC Model most s a) Spiral Model c) Waterfall Model	uitable for large projed	cts with clear knowled b) Incremental Mod d) Prototyping Mode	el	requirements is
142. Which of the following				and the salities
a) It is suited for small projectc) It gives efficient staff utilis			loes not conside needs clarity of r	er risk nandling requirements at start.
143. Prototyping in software	-			
a) Throw - away prototypingc) Both a and b options		b) Evolutiona d) None of th	•	
c) both a ana b options		a) None of th	CSC	
144. Which of the following a) Incremental Model b) Wa		gest deployment of m c) Component Assem	=	d) RAD Model
145. The majority of the lifet	ime of a program is sp	ent in the	_ phase	
a) Maintenance		c) Design	d) Testing	
146. In Boehm's spiral mode a) Phase	l, each loop in the spira b) Design	al represents of c) Documentation		process ne of the above
		•	•	
147. Which of the followinga) Data Sources	is seen in the DFD but b) Data Flows	not in the Context Dia c) Data Stores	agram d) Use	rs
148. Data flow cannot take pa) A store & a process	lace between	b) External entity & բ	process	
c) Store & an external entity		d) Process& process		
149. "Balancing of DFD" is m a) Conservation of inputs &		els		
b) Sub dividing a process into	-			
c) Labelling of all data itemsd) Allowing data flows to tak	e place only to or from	n processes		
· -				
150. A data flow diagram is r a) Logical model of a system	not a	b) Good guid	e to a system	



c) Representation of the ph	ysical system	d) All of these options		
151. DFDs, decision tables, a) Requirements analysis c) Software Design	b) Req	of Juirements mode of the above	lling	
152. Which model used to s detailed	how data processing at	t different levels o	of abstraction	from fairly abstract to fairl
a) Semantic Data Models	b) Object Model	c) Data Flow Mo	odels	d) Service Usage Models
153 Models descri system.	be the logical structure	of the data whic	h is imported	to and exported by the
a) Object b) Se	mantic data	c) Data flow	d) Non	e of the above
154. Which of the following a) They consist of object-rel c) It indicates modality of re	ationship pairs	b	o) It indicates I) All of the al	cardinality of relationships bove
155. Which of the following a) Unambiguous	is not a characteristic of b) Verifiable	of a good SRS doo c) Redundant	cument? d) Cons	sistent
156. Find the odd one out a) Axiomatic Specification	b) Algebraic Specifica	ition c) Z Spe	cification	d) Data Flow Diagram
157. Which is the most und a) Sequential b) Co	esirable form of cohesion incidental	on from the follo c) Temporal	• .	nmunicational
158. The external interface a) Developer centered	design process should b		 or centered	d) Management centered
159. Which of the following a) They vary in the basic absorbaintained				
c) They vary in the way fund	tions are grouped	d) All of	the above	
160. In which of the following Requirements capture b) Ar a) A, B & C b) A,	<u> </u>	lementation e) Te	•	,
161. Which of the following a) Comments should use prob) They should explain the cc) They should be used to dc) They add up to the LOC states. Use of coding standard a) Eases the task of integrate b) Enhances the maintainable. Enhances reusability of the d) All of these options	oblem domain termino code at crucial places or ocument changes to the size of the software listing of the software module oility of the software	logy nly e code		

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162 is a into a self-sufficient block to a) Modular programming		her programs.	s data and instruct o down design	tions for processing that data
c) Object oriented program	nming	-	uctured programn	ning
163. A test case design tec a) Black Box Testing b) W		e of a knowledge c) Unit Testir	=	_
164. Black box test cases ca a) Source code	an be derived from b) Flowchart	c) SRS Docur	nent d) Pseudo code
165. Which of the following a) It is an approach to design b) It is complementary to E c) It gives test cases based d) All of the above	gning black box test c quivalence Class Port	ases tioning		
166. Cyclamate complexity a) Data Flow Graph c) Control Flow Graph	is calculated from		ucture Chart of the above	
167. Which of the following a) It is an indicator of the s b) It gives the maximum not c) It is calculated from the d) All of the above	tructural complexity of of independent path	of a program ns in a program		gram
168. Effective Software Pr a) People b) Pr	-	cusses on rocess	d) All of above	
169. Which of the following a) Configuration Managemb) Risk Management Plan	ent Plan		b) Quality Assur d) Requirement	ance Plan s Elicitation Plan
170. Conversion of Adjuste a) Team Size b) Pr	ed Function Point Cou Toject Duration		s dependent on iing Language	d) Cost Drivers
171. The critical path of PE a) The path with the longer b) More than one unique pc) Path on which any delay d) Path with same earliest	st duration eath ys are allowed			
172. Which of the following a) Performance 173. The total float for an a a) The total duration of the b) The difference between	b) Cost c) S activity is activity the earliest finish tim	chedule ne and earliest sta		ove

d) The difference between the latest finish time and the earliest start time

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174. According to the the	staffing pattern of a sof	tware proje	ct follows the Rayle	igh-Norden	curve and peaks during
a) Detailed design	b) Coding & Uni	t testing	c) Integration Test	ting	d) System Testing
174. Arrange the follow	wing activities in Risk As	ssessment in	the correct sequer	ıce a. Priorit	tization b. Identification
a) b, a, c	b) b, c, a	c) a, b	o, c d) (c, a, b	
			•		
176. Under SCM the va a) By their respective a c) In a central project		naintained	b) By the appropr d) All of the above		
177. Cleanroom Softw a) Formal Specification	are Development proce b) Static Verifica		on c) Statistical Testi	ng	d) All of the above
178. Which one of the a) Decision table	following is method is a b) Structure Eng		describing complex c) Finite automata		cess d) Binary tree
179. Productivity can r a) Productivity=KLOC/ c) Productivity=KLOC/I		onship	·	ivity=KLOC/ ivity=KLOC*	defects person-month
180. The goal of coding a) To reduce the cost of c) Both a & b		b) To d) No	reduce the cost of r ne	naintenanc	e
181. Bottom of Form Top of Form Broad design of modul a) External design	les & their relationships b) Detailed desi		c) Architectural d	esign	d) Process design
	Software Development ements B) Size of the Po b) A, B & D only	roject C) Tim			ty on Technical Issues
183. The SDLC Model r a) Spiral Model	nost suitable for small p b) Incremental N	=	n clear requirement c) Waterfall Mode		d) Prototyping Model
a) Waterfall Model 185. The waterfall mod	ntial or Classic Life Cycle b) Incremental N del of the software proc b) Discrete c	∕lodel	c) Spiral model rs each process acti	vity as a	otyping Model phase e of the above

186. Which of the following 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

187. In the Spiral model the radius of the spiral at a a) The level of risk c) The cost incurred in the project till then	any point represents b) The progress made in the d) None of these	current phase
188 uses powerful development softwa) Prototyping b) RAD c) Coding	ware and small, highly trained d) Modeling	teams of programmers.
189. Planning the modular program structure & con a) Architectural Design b) High Level Design	·	
190. Designers should aim to produce strongly a) coupled, functional b) Maintainab c) Cohesive, coupled d) Coupled, co	ole, cohesive	
191. Use of global data areas or global variables ma a) Stamp Coupling b) Common Coupling		d) Control Coupling
192. Function oriented design process consists of a) Data Flow Design b) Structural decomp	oosition c) Detailed De	esign d) All of the above
193. Transform Analysis performed on a DFD ident a) Afferent Branch b) Efferent Branch	ifies the c) Central Transform	d) All of the above
194. The two questions "Are we building the right p	product?" &"Are we building t	he product right?" correspond
a) Verification only c) Validation & Verification respectively	b) Validation of d) Verification	only a &Validation respectively
195. Which of the following is not a White box test a) Statement coverage b) Error guess	₹	d) Condition Coverage
196. A Test case includes a) Input b) Expected output c) Info	rmation of function under tes	t d) All of these option
197. A stub is a dummy verion of the ra) Superordinate b) Subordinate	module of the module under t c) Coordinate	
198. A driver is a dummy version of the a) Superordinate b) Subordinate	_ module of the module unde c) Coordinate	
199 exercises the system beyond its many a) Thread testing b) Stress Testing	aximum design load c) Back to back testing	d) All of the above
200. Presenting the same tests to different version		
a) Thread tecting h) Stress Testing	c) Back to hack testing	d) All of the above



201. Which of the following is not a part of Projec	t Plan?	
a) Risk Management Plan	b) Personnel Plan	
c) Project Mentoring Plan	d) Software Architecture Pl	anning
201. Which of the following is true for two project using COCOMO for estimation A) The initial effort estimate for both projects will B) The Effort Adjustment Factor will always be the C) The final effort estimate will always be the sam a) Only A is true. b) Only A & B are true	be same as both have same Le same for both projects are for both projects	
202 1- 0000140 1		
202. In COCOMO terminology a project with softv regulations on operating procedures is categorise		complex nardware & stringent
a) Organic b) Semidetached		plication
203. Which version of COCOMO develops estimat subsystems by considering the differences in the call Basic COCOMO b) Intermediate COC		sytems
204. The minimum time required to finish the pro	ject can be estimated by cons	idering the path in the
activity graph	al Average	d) CDT
a) Shortest b) Longest	c) Average	d) SPT
205. PERT/CPM cannot be used for a) Scheduling of projects c) Optimizing Resource Utilization		g & Control of projects ntrol of products
206. Democratic team structure is suitable for pro a) With strict deadlines c) With research orientation	ojects b) With clearly know d) None of these	n requirements
207 ensures that a set procedure is a) Configuration Identification b) Configura	followed to make any change tion Control c) Base lining	
208. Configuration Management is		
a) Framework activity b) Umbrella activity	c) One time activity	d) None of the above
209. CASE stands for		
a) Computing Advanced System Engineering c) Calculating Arithmetic System Engineering	b) Computer Aided 9 d) None of th	Software Engineering ne above
210. Requirement phase is usually done by		
a) System Analyst b) System Administr	rator c) System Engineer	d) All
211. Which one of the following is not considered a) Number of input b) Number of interface		nt mber of output data
212. Cohesion is the concept which tries to captural land in tra-Module b) Extra-Module	re this c) Inner-Module	d) Outer-Module
213. Functional approach is also known as A) Glass how testing h) Black how testing	c) Innut how testing	d) Output hox testing

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214. Object oriented technology's use of f	acilitates reuse of the code and architecture while its , as a small change in requirements doesn't require
massive changes in the system.	, as a small change in requirements access crequire
a) Inheritance, Encapsulation	b) Inheritance, Polymorphism
c) Encapsulation, Polymorphism	d) Polymorphism, Abstraction
c) Encapsulation, i orymorphism	d) i diyindi pilisiri, Abstraction
215. Which of the following steps do you think develope	ers should take to create efficient compact applications?
1. Clearly define initial requirements of the system	ala a cantalla a canada a la cana
2. concentrate earl development efforts on modeling im	•
3. Analyze and manage risk throughout the developmen	·
4. Leave all software testing until after system has been	
a) a, c b) a, b c) a., b, d	d) a, b, c
216. Which of the following elements combine to form 0	OOAD method
1. Notation 2. Diagram 3. Process	4. View
a) a, c b) a, b c) a, b, d	d) a, b, c
217. Which of the following are aims of UML?	
1. To model system using OO concepts	
2. To provide a process for software development	
3. To support small-scale and large-scale analysis and de	sign
4. To provide an insight into implementation mechanism	1
a) a, c b) a, b c) a, b, d d) a ,	
218. Towards end of the design phase, sho	ould be allocated to source code components.
a) Use cases b) Relationships	c) Models d) Classes
219. 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 s	statement d) Draw up a plan for entire project
220. Which of the following best describes what the pro	blem 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	oroiect
<i>a,</i> =	
221. If you are finding hard to identify the name of class	and to write definition for it. What thing you should
do?	and to 11110 dominion for the tring () and the control of the con
a) Ignore class completely	
b) Do more analysis to get a better understanding	
c) Write a definition for the class even if it is not ve	g of what is involved in the class
of white a demination for the class even in it is not w	
d) Make it a friend class of some other main class	
d) Make it a friend class of some other main class	
	ery good
d) Make it a friend class of some other main class222. Which of the following statements are true of use of 1. Functionality of a use-case has to be complete from the following statements.	ery good cases and use case models?
222. Which of the following statements are true of use of	ery good cases and use case models?

3. Use cases outline functionality of the system4. 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	
223. mac	Class diagram re a) Conceptual of hine	•	b) Organization of obje	cts c) Set of actions	d) State
224.	Collaboration di a) Organization	-	ents b) Messages on time sc	ale c) Conceptual d	esign d) Set of actions
225.	State chart diag a) Organization		b) Conceptual design	c) Set of actions	d) State machine
226.	In OOD primary a) Function	abstraction m) Object	d) Hierarchy
	c) Builds a bridg d) Uses experin	stem in a serie encapsulation a ge between us nental softwar	es of versions and inheritance to simplifer and developer e to better understand us		
		tem in a series e between use ental software			
mair a. so b. cla c. co	ntenance elemen oftware compone ass diagrams	its of software ents	Ily means reverse engine architecture of a comput ips between software con	ing systems include	type of software
1)	a, b	2) a, c	3) a, c, d	4) a, b, c, d	
230.	Project milestor a) DFD and SRS c) Feasibility stu			s) Interface design and) Requirements and c	-
231 testi	. Which is not pa a) White box to ng	_	b) Black box testing	c) Inner testing	d) Gorilla
232.	Which is not par a) High level de	=	software development v level design c) Mid-le	e vel design d) Replic	cation, delivery, installation
233.	Which software a) Water fall mo	= = = = = = = = = = = = = = = = = = =	model incorporates risk r ral model c	nanagement?) Incremental model	d) Object model
234.	Largest time is s	pent on which	of the software develop	ment phase?	

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	a) Testing	b) Enhanceme	ent	c) Bug fixing	d) Ana	lysis and design		
235.	235. Simple SDLC contain a) Requirements, analysis, design, implementation, testing b) Analysis, design, implementation, testing, deployment c) Analysis, design, implementation, testing, maintenance d) Requirements, analysis, design, implementation, deployment							
a	DFD is not a Logical model of system Representation of phy			b) Good guide d) All of the a	-			
; 	Productivity metrics a) Focuses on the outp b) Focuses on the chara c) Provide indirect mea d) All.	acteristics of the	= =	s.				
238.	Which is not a type of r a) Adaptive	maintenance? b) Corrective	c) Perf	ective	d) Obsolescen	nce		
240.	Adaptive Maintenance To improve the syste The maintenance du The correction of unc None of the above Which of the following rement Specification?	m in some way e to changes in discovered syste	the environme m errors	ent		tisfying the		
;	a) Requirements Analys	sis	b) Design	c) Cod	ing	d) Testing		
	Reliability in a software a) Fault avoidance	•	achieved using It tolerance	the following c) Fault detec	=	EPT d) Fault rectification		
242.	The Software Developn a) Feasibility Study to I c) Requirements Phase	Installation		b) Req	Juirements Pha ject Initiation to	se to Testing o Software Retirement		
; 	Identify the true staten a) Processes usually div b) Processes provide gu c) Processes are used o 1) a and c 2) a a	vide software de uidelines for wh	evelopment into	phases	elopment			
;	Process visibility is enhala) Defining clear cut phala C) Conducting reviews	iases		b) Producing (d) All of the a		ted to each phase		

245. Which of the following activities is not considered as "Umbrella Activity"

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a) S/W Quality assurance b) Software Design c) S/W configuration management d) S/W Project Monitoring & Control 246. What is the primary purpose of the first stage of software analysis and design? b) Writing code a) Determining system deployment c) Capturing requirements d) Building GUIs 247. SDLC starts with stage a) User Requirement and Analysis b) Deployment c) Testing d) Design 248. The analysis phase takes an approach to the system, ignoring its inner workings whereas the design phase takes an _____ approach, making decisions on how the model will be implemented in code a) White box & Black box b) Black box & White box c) Top-Down & Bottom-Up d) Bottom-Up & Top-Down 249. The goal of _____ is to obtain a clear understanding of the system and its shortcomings and to determine opportunities for improvement a) Feasibility study b) Systems analysis c) Systems definition d) Systems study 250. The last step in System Development Life Cycle is a) Analysis b) Implementation c) Testing d) Maintenance 251. The ______ phase of the systems life cycle contains periodic evaluations and updates of the system preliminary a) Investigation c) Systems implementation d) Systems maintenance b) Systems analysis 252. During the _____ phase, the application is verified against the requirements b) Design c) Testing d) Implementation a) Analysis 253. The type of software maintenance which is done to add new features to the product is called a) Corrective Maintenance b) Adaptive Maintenance c) Regressive Maintenance d) Perfective Maintenance 254. Because of the cascade from one phase to another, the model of software development process is known as a) Evolutionary model b) Formal model c) Waterfall model d) None of the above 255. Prototype may be used for a) Risk Reduction b) Requirements Elicitation c) User Interface Design d) All of the above 256. RAD Model is high speed implementation of a) Waterfall Model b) Spiral Model c) Prototyping model d) Component Assembly model 257. means to build a model that can be modified before the actual system is installed d) None of the above a) Maintenance b) Prototyping c) Implementation 258. A requirement may be a description of a) Functionality to be provided b) Constraint on the softwarec) External interface d) All of the above



		& flowchart gives idea of		
a) Processes, o	decisions b) Control, d	ata c) Logic, c	ontrol	d) Data, control
•	lo not consider of the data object that act on the data	b) Relation d) Any of	nships between da the above	ita objects
		al characteristics, architectu		processing details of a
a) I and II Only	-	rams II. HIPO diagrams III. S c) I, II and III		e above
· · · · · · · · · · · · · · · · · · ·	cation language consist			
a) Syntax	b) Semantics	c) Set of relations	d) All of the a	above
	architecture is best repi gram b) Flow Char	resented by t c) Structure Char	t d) Data Flow	Diagram
	a programmer can e b) Software	detail the logic of the prog c) Context diagra		a flow diagram
a) It shows th	following is not true about the second of a property of the second of a property of the second of a property of the second of th	rogram b) It is a to	ool for detailed des ly separates variou	
a) Object oriented c) Functional de	d decomposition	·	ional units. ural decomposition f the above	n
		t use of the programming la c) Run time error		
268. Testing of soft a) Designing	ware falls after b) Implemen		ment d) Coc	ding
269. Changes made a) Perfective n c) Adaptive m	naintenance	ommodate changes to its e b) Regressive mai d) Corrective mai	intenance	ed
270. Major changes a) Perfective m c) Adaptive ma	naintenance	, -	l software reengind sive maintenance :ive maintenance	eering or
a) Platform & 1	t Count is dependent or Fechnology vare Resources	b) Team S	ize es & Functionalitie	es
272. In COCOMO to being developed is a) Organic	= : : :	th mixed level of staff expe c) Embedded	rience & part fami	



	erminology a project rating procedures is		eing strongly co	oupled to complex ha	rdware & stringen
a) Organic	b) Semidetached		mbedded	d) Application	
274. The value of 0 a) Greater tha		attribute for high Equal to 1	ner than averag	ge Programmer Ability 1 1 d) None of	•
a) Bar chart and			b) ERD and	e the project schedule Bar chart and activity network	
276. According to peaks during the _	Putnam the staffing	pattern of a softv	vare project fol	lows the Rayleigh-No	orden curve and
a) Detailed des Testing	ign b) Codin į	g & Unit testing	c) In	tegration Testing	d) System
278. Risk Assessmo a) Risk Compo	ent Table is based or onents b) Risk Im	_	y oth a and b op	tions d)	None of the above
	out of frequent chang cterization b) St	ge requests are b rong SCM c) N			eduling key
a) Inconsiste	CM tools help solve process of SCIs of development env			oncurrent access to S Il of these options	SCI
281. As per SEI CM a) Level 1	M organizations wh b) Level 2	ich do not have a c) Level 3		nt & stable are consid evel 4	ered at
281. In which of th a. requiremen b. analysis c. design d. implementa e. test 1) a, b, c	t capture ation		process do you	u think use cases hav	e a role?
282. Sequence dia a) Organizations		Messages on tin	n e scale c)	Conceptual design	d) Set of
283. Analysis takes a) User, user				kes place from er, user d) Develop	
	phase of SDLC b) Development			uct is as per requirem d) Deployment	nents.
285. Polymorphisn a) Organizes abs					



c)	Delivers a system ir works with encaps	n a series of v	ersions	simplify flow	of control		
286.	. Spiral model incorp a) True	oorates risk m b) False	_				
287.	. Storage manageme a) True	ent is not a pa b) False		management			
288.	. Data flow diagrams a) True	s are part of o b) False		f SDLC			
	. Which is an iterative constructing softwa	are	_				
	a) Testing b)) Requiremen	nt analysis	c) De	esign	d) Mainte	enance
290.	. What manifests in a) A data flow diag	=	of choices made) Coding style	_	ernative ways o data dictionary		g an algorithm is A flow chart
	Duality control a) Focuses on inspection b) Is a set of planned will satisfy given c) Is to check system d) All of the above Which of the follow a) System integrat c) Sub-system inte	ed and strictly requirement m for its inter ving types of ion testing pl	y and strategions for quality nal errors test plans is man	actions to pr	ovide confiden	rement spe ce test plan	ecification process
	In project planning a) Set objective or a c) Decision making	first thing is		b) Develop s d) Find out r	trategies and p	·	
294.	Which of the follow a) Planning c) Project docume		rt of spiral mo		communicatio ng	n	
295.	Pick up one of the a	-	ods given belo b) Boundary v	= = = = = = = = = = = = = = = = = = =		_	d) Debugging
	a) First level factoric) Restate the prob 1) a, b, c, d	ng b) factorin	g of input fying the input		esign methodol 4) a, e		e them in an order
297.	. COCOMO is an effo		n model in terr	,	 d) None of th		
298.	. Pick the odd one o	ut					



a) Component assemb Model	oly model	b) Spiral Model	(c) Incrementa	l Model d) Iterative
299. Pick the odd one out a) Data Flow Diagrams c) Structural Decompo			b) Object Ident d) E-R Diagrams		
300. Which of the following maintainability?	factors of a So	ftware Product m	nay not contrib	ute much dire	ctly to its
a) Understandability	b) Flexibility	c) Secur	ity	d) Testability	
301. During Requirements P of the following interfaces	hase recording	interface require	ements of a sof	tware system	does not include which
a) User Interfaces	b) Software In	iterfaces (c) Hardware Int	terfaces	d) Module Interfaces
302. External Entities in a Co	ontext Diagram	may be A) Peopl	e B) Other Soft	ware Systems	C) Hardware D)
a) Only A & D	b) Only B & C	c) Only	A, B & D	d) A,B,	, C & D
303. Example of a Semantic a) Data flow diagram	Data model is b) Context Di	agram c) Enti	ty Relationship	o Diagram	d) All of the above
304. A system developed to a) Semantics	give end users b) Model	a concrete impre c) Proto		stem capabilitd) Abstraction	
305. Planning the solution to a) Coding	a programmir b) Compiling	ng problem using c) Mode		echnique is ca d) Design	lled program
306. Conception & planning a) External Design	out of externa b) User Interf		aracteristics of c) Both a and b		called d) None of the above
307. A way of indicating the a) Procedural Abstract		without establish ta Abstraction	_		d) None of the above
308. The number & complex a) Modularity	kity of intercon b) Cohesion	nections between		is an indicato d) Abstraction	
309. The method of deriving a) Factoring	the structure b) Factor Ana		FD is called c) Transform A	nalysis	d) All of the above
a) There should be or b) There should be at c) The sequence or or d) All of the above	nly one module the most one	at the top control arrow be		dules	
311. A programmer must fo a) Pseudo code	llow the rules f b) Iteration	or coding a partic		ning language d) Documenta	
312. is the process	of locating and	l eliminating proខ្	gram errors.		



	a) Editing	b) Correcting	c) Debugging	d) Tes	ting	
313.	Changes made to the so a) Perfective mainten c) Adaptive maintenar	ance	b) Reg	al functionality ressive mainte rective mainter	nance	
314.	COCOMO is categorizes a) Heuristic	s as ae b) Empirical	stimation techn c) Analytical	-	ne of the above	
315.	Which of the following a) Staffing Pattern peak b) Schedule compression c) Expanding the sched d) All of the above	cs at Coding & Unit te on increases effort in	sting proportion to fo	urth power		
316.	RMMM is a Risk Manag a) Risk avoidance by de b) Continuous risk mon c) Actually managing th d) All of the above	veloping a risk mitiga itoring throughout th	tion plan e project		olanning	
317.	A change request has to a) Its technical merit		mpacts c) Side	effects	d) All of these	e options
318.	Software quality managa) Quality assurance	gers are responsible fo b) Quality planning		lity control	d) All of the a	bove
	Which of the following a. data inputted b. GUI component c. Another system d. A printer . A, B, C 2. A, I		В, D	4. A, C		
	UML can be used as a wa) True Use cases can be includa) True	b) False				
	Which of the following a) Finite resources b) Others are competing			b) Inaccurate d) None of the	estimates of ce above	ost and time
323.	a) COCOMO b) Fun			timation	d) All of the a	bove
324. mod	Pick up odd one out of a) Component assemble	_	al model	c) Incrementa	ıl model	d) Iterative
325.	Parts of design principle	e are				



- a) Correctness, robustness, efficiency, flexibility, understandable
- b) Correctness, robustness, efficiency, flexibility, reusability
- c) Flexibility, correctness, robustness, efficiency, standard
- d) Flexibility, correctness, robustness, efficiency, security

	a) i lexibility, correctiless, i	boastiless, efficiel	iley, see	arrey			
326.	Which of the following can a) Finite resources	be a reason for p	roject fa	ilure?	b) Inac	ccurate estima	tes of cost &
tillie	c) Others competing to do	the job cheaper &	faster.		d) Non	e of the above	è
327.	Software Engineering is cor a) Process b)	ncerned with Methods	c) Too	ols	d) All d	of the above	
328.	An approved feasibility stud a) Systems design c) Systems development	dy is a deliverable	out of	b) Preliminary d) Systems an		igation	
	Checklists, grid charts, and a) Preliminary investigation c) Systems development	decision tables ar	b) Sys	ls used in the tems analysis tems implemen	tation	step	
330.	The present system is studi a) Preliminary investigation			 :			
331.	The SDLC Model most suita a) Spiral Model b)	ble for small proje Incremental Mod		n clear requirem		d) Prototypin	g Model
332. is	The SDLC Model most suita a) Spiral Model b)	ble for small projo Incremental Mod		n unclear requir c) Waterfall M		is but not man	
а		irements sub pha ysis c. Valida D, B, A, C		d. Elicitation	d) B, A	, D C	
334.	Automated CASE tools like a) Requirements Document c) Requirements Analysis		elp in	•		nts Validation nts Elicitation	
335.	The requirement engineering a) Feasibility study c) Implementation	ng process has the	b) Red	ing stages, exce quirement analy quirement defin	sis		
336.	Concept of Abstraction is us a) Requirements phase	sed in b) Design Ph	ase	c) Testing Pha	se	d) All of the a	above
337.	The number of subordinate a) Control range	modules control	led by a	module is called	d its	d) Width	
338	If two modules pass a data	structure across t	heir inte	erface they exhi	hit		



	a) Stamp Coupling	b) Data Coupling	c) Con	tent Coupling	d) Cor	ntrol Coupling	
	. The strength of relation Iule cohesion	ship between which o	f the fo	llowing elemer			e
	a) Function declarationsc) Data definitions	, function definitions&	calls		b) Variable de		
340.	. The graphical tool comr a) Context Diagram	monly used to represe b) Structure Chart	nt the s	ystem architec c) Architectur		d) Event Table	
341.	The value of COCOMO (cost driver attribute fo b) Equal to 1		than average I than 1	Reliability requ d) None of th		
342.	. Example of Software Co a) SRS	onfiguration Items (SCI b) Code) is	c) User manu	al	d) All of the above	
343.	Top of Form Which of the following a) Understand ability	factors of a Software P b) Flexibility	Product	may not contr		ts maintainability? tability	
344.	Your Answer: The Softw a) Feasibility Study to I c) Requirements Phase	nstallation	ectivitie	b) Red	quirements Pha	se to Testing to Software Retirement	
345.	. Any activity designed to	keep programs in wo	rking co	ndition, error	free, and up-to	-date, is referred to as	
	a) Maintenance	b) Testing	c) Deb	ugging	d) Coding		
	During the					ware are acquired and	
247	a) Design	b) Development	c) Imp	lementation	d) Ma	intenance	
547.	E-R diagrams are used i a) Database design c) Architectural design			a Dictionary co ctional Design	ompilation		
348.	The flow of data within a) Data flow diagram	a system is described b) Top-down		c) Sys	tem flowchart	d) Decision table	
349.	. Formal specification ted a) Set theory	chniques are based on b) Logic	c) Seq	uence	d) All of the a	above	
350.	. Using the name of a sec a) Procedural Abstracti					ons is an example of d) None of the above	
351.	. Providing a logical refer a) Procedural Abstraction			ut concern for c) Control Ab	-	representation is d) None of the above	
352.	. A module whose all ele cohesive	ments exhibit relations	ship wh	ich involves bo	th data and co	ntrol flow is said to be	
	a) Sequentially	b) Communicational		c) Temporally	d) Pro	cedurally	



353	The afferent branch of t a) Most Abstract Input c) Middle of the central		-	et Abstract Outp of the above	out	
orie pro	. I. Object-oriented softw nted software developm gram into objects that co) I and II are correct ect	ent is more efficient tl	han trad ne proce	itional method	s. III. OOP is a ns necessary to	process that organizes a
356	. The if-then-else constru a) Sequencing	ct is an example of the	e c) Itera	ition	d) All of the a	above
	. Proper program layout lentheses improves a) Efficiency of the prog c) Maintainability of the	ram	oper use	of indentation b) Size of the p d) Reliability o	orogram	
358	. Static verification & validation & validat	dation is applied to b) Design		c) Code		d) All of the above
359	. Static testing involves a) Code Analysis	b) Structural Analysis		c) Data Flow A	nalysis	d) All of the above
360	Statistical Testing is useda) For statistical softwardc) Reliability estimation	e's only		b) Only uncove d) Efficiency es	_	
361	. Which of the following i a) It follows a bottom up b) Complete testing is n	p approach	ware tes	b) Testing is p		the coding phase presence of defects
362	. Which of the following i a) Testing includes deb c) Testing only establish	ugging		b) Deb	ugging include	es retesting s the program defects
363	. Purely black box testing a) Unit testing	would be used at whi b) Module testing		e following leve gration Testing		ceptance Testing
364	. Black box testing is mor a) Functional Errors	e useful in locating b) Performance E	rrors	c) Interface Er	rors d) All	of these options
365 opti	. Test Data includes a) Set of inputs b) Set ons	of expected outputs	c) Infoi	rmation of func	ction under te	st d) All of these
366	. Testing strategies can bo a) Top – down testing, b c) Back – to – back testi	Bottom – up testing			b) Thread tes	sting, Stress testing ve
367	. A stub is a dummy versi a) Superordinate	on of the b) Subordina t	='	of the module c) Coor	_	d) All of the above
368	Testing done with real d	lata is called				

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- a) Data testing
- b) Unified testing
- c) Alpha testing
- d) Beta testing

- 369. The following are the testing strategies except
 - a) Top-down testing
- b) Thread testing
- c) Stress testing
- d) Verification testing

- 370. An example of an Empirical Software estimation technique is
 - a) COCOMO
- b) FPA
- c) Delphi
- d) Halstead's Software Science

- 371. The Lines of Code (LOC) size do not include
 - a) Compiler Directives
- b) Declarations
- c) Comments
- d) All of the above

- 372. Repeatable level as per CMM model is
 - a) Level 1

- b) Level 2
- c) Level 3
- d) Level 4
- 373. The collection of computer programs, procedures, rules and associated document and data is called -------
 - ----
 - a) Software
- b) Hardware
- c) Both
- d) None

- 374. A context diagram contain
 - a) Only one process
- b) More than one process
- c) At least one process
- d) None

- 375. The spiral model is both suitable for
 - a) Development type projects
- b) Enhancement type project
- c) Both
- d) None

- 376. Three major factor of software engineering are
 - a) Cost, Correctness, Reliability

b) Cost, Schedule, Reliability

b) Cost, Quality, Correctness

d) Cost, Portability, Reliability

- 377. Data flow can take place between
 - a) Process to Process
- b) File to File c) Process to File
- d) External Entity to Process

- 1. A, B, C
- 2. B, C, D
- 3. A, C, D
- 4. A,B,D

- 378. 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
 - 1. 1-a, 2-b, 3-c, 4-d
- 2. 1-d, 2-b, 3-c, 4-a
- 3. 1-a, 2-b, 3-d, 4-c
- 4. 1-a, 2-c, 3-b, 4-d

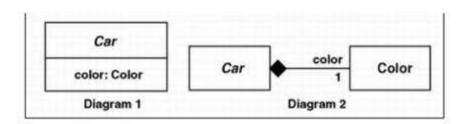
- 379. The first step in the project planning is:
 - a) Size of the product

b) Select team organizational mode

c) Determine the Project constraints

d) Establish objectives and scope

380.



- a) 1: An aggregation, 2: A composition.
- c) 1: An aggregation, 2: An attribute.

- b) 1: An attribute, 2: An aggregation.
- d) 1: An attribute. 2: A composition.



381. Phase containment			h) Classica d			
	the closest point of g software projects o		b) Stop errors during software projects deployment.d) None of the above.			yment.
382. The most commonly a) Waterfall model		-	ent is c) Iterative water	fall model	d) None of the a	above.
383. What is "Customer r	nust have at least a	Pentium mac	hine to access this	software"	in context of Soft	tware
Requirements, a) Assumption	b) Objective	c) Rusi	ness Problem	d) All d	of the above	
a) Assumption	by Objective	c, basi	11033 1 10010111	a, m	or the above	
384. For a Leave Applicat can approve/reject the lescenario, identify the validation 1) Employee a) None of the above	aves. The data will be d actors from the fo 2) Mana	e stored with llowing for th	nin a "Leave datab iis system.' 3) Leave Databas	ase" as part	of this system. I	n this
385. A timing constraint perample of	placed on the system	or the use o	f a specific langua	ge during de	evelopment, is a	1
a) Functional require c) Requirements def			•	nctional re of the above	quirements	
386. What is a Requireme a) What software p above		rements in S	RS c) What c	ustomer wa	nts? d) All of	[:] the
387. Which of the following a) Abstraction	ng is a tool in design b) Refinement	=	rmation hiding	d) All t	the above	
388. The data flow diagra a) Depicts relationsh b) Depicts functions c) Indicates how da d) Both b and c	nips between data ol that transform the o	data flow		ween data c	bjects	
389. The phase a) Preliminary inves c) Systems impleme	tigation	b) Syst	periodic evaluatio ems analysis tems maintenance	·	ates of the syster	n
340 provides to statement in program hat a) Independent Program c) Graph Matrices	s been executed at l	east once. b) Cyc	es that will be requi lamate complexity te of the above	_	rantee that every	/
341. Content testing unco	overs b) Semantic err	ors	c) Structural erro	rs	d) All of the abo	ove
342. Which of these are s		ng software ¡	orocesses? d) Both b	and c		



343. Methods of Project Monitoria a) Time sheet b) Ea	ng are arned value method	c) Design Constra	aints d) Both a & b
344. Risk projection attempts to ra a) Likelihood and cost c) Likelihood and consequen		•	ood and impact ood and exposure
345. Effective risk management pl a) Risk avoidance b) Ri			All of the above
346. To quantify a risk we need to a) Determine the possibility of c) Determine consequences of	of risk happening	with that risk.	b) Both a and b. d) None of the above
347. Change control process is do A: requirements	ne in a software project d	uring	
348. Deliverable for a software Pro a) Source Code c) Requirement Documents a		b) Design Docum d) All of the abo v	
349. Scoping is done during, a) Proposal Stage c) Design Stage	b) Requiremen d) Coding Stage	its gathering stage	
350. A software engineer is measured and the "validity' of his measured a) Reliability refers to the extent to validity refers to the consistency of b) Reliability refers to the consistency of the measurement represents the c) Reliability refers to the accuracy measurement follows a quality stand) Reliability refers to the concurrent the measurements are consistent.	ents. Which of the follow o which the measuremen of the quality measuremen ency of her quality measuremen actual quality of the system of her quality measurementard. The system is a sure of the system is a sure of her quality measurements of her quality measuremency of her quality measuremency of her quality measurements.	ing is true? t represents the actual onts urements and validity re em. hents and validity refers	quality of the system and efers to the extent to whice to the extent to which the
351. Quality attributes are the over a) Run-time behaviour		c) User experience	d) All of the above
352. Testing is a a) Process of executing a process of testing software	=	-	Process of removing error All of the above
353. Black box testing checks the factorial a) Incorrect function	following errors b) Interface errors	c) Both a & b	d) None of the above
354. A method of estimating the a a) WBS Estimation estimation	mount of functionality re b) UCP Estimation	quired for a project is c) FP Estimation	d) COCOMO



355.	Scheduling begins with a) Risk identification	b) Process decompos	ition c) FP	Estimation	d) COCOM0 e	stimation
	Aggregation represents a) Is a relationship ve	b) Part of relationship	c) Co	mposed of rela	tionship	d) None of
357.	Modules X and Y operata) Sequential	e on the same input ar		a. The cohesion	n is said to be d) Logical	
358.	Estimates are made in a a) Size b) Cost		a and b.	d) No	one of the above	
359.	SPMP document is mad a) Project planning	e at the end of b) Project monitoring	c) Pro	oject control	d) None of th	e above
360.	While gathering the req a) Start gathering funct b) List down all the Use c) Start gathering non-f d) Create Test plan	cional requirements ers of the System (called	d as Actors)	ML), the very fi	rst thing we sho	ould do it
	What is the solution to 'a) Improve technical skil c) Learn a tool for requir	ls	b) Se	s gathering? ek customer fe one of the abov	-	
362.	Which of the following s a) Scenarios are instanc c) A use case is an instan	es of a use case.	b) Sc		eralizations of r e	nany use cases.
•	Which of the following ia) A Build represents an of the capabilities provb) A Build constitutes anc) Each Build is placed unwhen added functional integrity. d) All of the above	operational version of ided in the final produling integral part of the itender configuration con	ct. rative develo trol in case th	opment lifecycle nere is a need to	e and provides r o roll back to an	eview points. earlier version
364.	What is the Cost of qual a) 120, 35, 37, 50	lity, Failure cost, preve b) 37, 95, 120, 40	ntion cost, an c) 95, 37, 1		t? d) 120, 13, 45	, 40
365.	Prevention cost iv) Effor a) a-iv b-iii c-ii d-I	rts spent on reviews an b) a-iv b-ii C-iii		c) a-ii b-iv c-i	i d-iii	
-	of Form Software Engineering is a) Process	concerned with b) Methods	 c) To	ols	d) All of the a	bove
367.	Static verification of coca) Logic errors	de is not likely to revea b) Syntax errors	c) Performaı	nce errors	d) Coding star	ndard violations

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368.	Which factor among the a) Decomposability	e following has least ef b) Efficiency	fect on the testability of a c) Understand ability		ervability
	Identification of inputs of	which cause anomalou	s behaviour in the outpu	ts indicating	the existence of
	a) Static Testing	b) White Box Testing	c) Black Box Testing	d) In	terface testing
370.	In unit testing which of a) Statement coverage	the following is the str b) Branch Covers	ongest testing strategy? age c) Condition Cove	erage	d) Path coverage
371.	Selection of test paths a a) Path coverage testing c) Data Flow Testing	-	& usage of different varia b) Condition Coverage to d) Branch Coverage Test	esting	program is called
	Compared to small tean a) More sensitive to pro c) Not sensitive to progr	grammer ability	b) less sensitive d) None of these		mer ability
subs		ne differences in the co	s for large projects as sur emplexities of its various DMO c) Complete COC	sub systems	
	Structural approach is a a) Glass box testing of Form	lso known as b) Black box t	esting c) Input box	x testing	d) Output box testing
375.	Ability of a software to a) Efficiency	perform stated functio b) Robustness	n under stated condition c) Reliability d)	for a stated Correctnes	
376.	= - 1		undesirable form of coup c) Content Coupl	_	Control Coupling
377.	Which of the following a) Data type	would NOT appear as a b) Decision	a symbol on a flowchart? c) Input/output	d) Pro	cessing
378.	All of the following are a) Iteration	control structures used b) Selection	d in structured programm c) Sequence d)	ing, EXCEPT Go to	
379. test		analyse the code and	use knowledge about the	structure o	f a component to derive
test	a) Black box	b) White box	c) Stress testing	d) Nor	e of the above
380.	•	–Server (Data Manage rocessing) – Server (Da	-		

381. Iterative method contains the feature of

d) Client (Application Processing) – Server- Client (Data Management)



	a) Water fall method	b) Prototype method	c) Both	d) None
382	. Which of following order a) SRS, Design, Coding, c) SRS, Design, Testing,	_	ring life cycle b) Design, Coding, T d) Coding, Testing S	_
	. Which is the most comr a) Brute force	monly used debugging approa b) Back tracking	ach? c) Cause eliminatior	d) None of the above
384	a) Dependability, usabil b) Maintainability, depe	eristics of a software product ity, reliability, robustness endability, efficiency, usabilit rainability, visibility, rapidity		
Bec Thro	ause we rushed through ough it! is	tat the end of the project to the process. I worth the effort. (Clue: both	The moral is: Don't rus	sh
	same word) a) Coding b) Des	ign c) Testing	d) None of t	he above
386	. Who should perform th a) Software developer		roup of developers ar	nd users d) None of the above
387		is not part of version manage b) Storage management	ement c) Coding sta	andard d) None of the above
388	. Testing a) Installs guilt	b) Is punishment	c) Is to find errors	d) None of the above
389	. Which is more importar a) Product	nt? b) Process c) Qu	ality d) No	one of the above
390	. The sooner you begin _ a) Coding	, the longer it wi	II take to get done. c) Design	d) None of the above
391	Verification is to checka) Whether we are buildc) Neither of the above		b) Whether we are d) None of the abov	building the product right ve
392	b) Requirements, Anal	uence of processes ysis, Test case design, Design ysis, Design, Test case design case design, Analysis, Design	n	
393	. A software quality assu a) Coding	rance activity that is perform b) Formal technical reviews		eers d) None of the above
394	. In what manner, coding	and testing are done		

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a) Top-down	b) Bottom-up	c) Cross-sectional	d) Adhoc			
395. Which of the following a) Problem descriptio diagrams	= :		cument rnative solutions	d) Data-flow		
396. The initiation of a system a) An analysis investig	gation	result from b) A manager's formal request d) All of the above				
397. Which of the following a) Inadequate user inv c) Size of the company cancelled	olvement	failure of a systems development Project? b) Failure of systems integration d) Continuation of a project that should have been				
398. "The probability of fail time" is the definition for a) Quality	ure free operation of a b) Reliability	computer program in	a specified Enviro			
399. The four icons used in a) Flow, Source, Store c) Flow, Process, Sour	, Process	b) Flo	ow, Process, Source urce, Process, Dest			
400. Which of the following is (are) not a tool for Application Prototyping? a) Application generates b) Third generation language c) Screen generators d) Report generators						
401. All of the following too a) Structured English	ols are used for process b) Decision tables	description except c) Pseudo co	de d) Data Dictionaries		
402. Which of the following a) File conversion	g activities does not bel b) Program testing	ong to the Implement c) User train		SDLC?) All of the above		
 403. 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 						
404. Benchmarking is used a) To select computer s c) For application proto	•	· · · · · · · · · · · · · · · · · · ·	in files is p-to-date n acceptance	condition		
405. Which is the first phas a) Design	e of the Waterfall softw b) Prototype	vare process model? c) Testing	d) Requirement			
406. What is the purpose of a) Requirements of cab) Define how the so		sed				

c) Describe what the user expects to do with the system

d) Make clear what the stakeholders needs are

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- 407. With their correct characteristics:
- Y1: Risks are assessed and activities put in place to reduce the key risks
- Y2: Specific objectives for the phase are identified
- Y3: The project is reviewed and the next phase of the spiral is planned
- Y4: A development model for the system is chosen which any can be of

The generic models

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

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

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

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

- 408. 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

409. 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"

410. A system version

- a) Is an instance of a system deployed at the client side
- b) Is an instance of a system that differs in some way from other instances
- 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
- 411. What is synchronization control in configuration management?
 - a) It governs which software engineer have the authority to access & modify a
 - b) Particular configuration object
 - c) It helps to ensure that parallel changes performed by two different people don't overwrite one another
 - d) It synchronizes two different system versions to form a single versions
 - e) It helps to synchronize the source code files to form deployable version
- 412. The currently known containment effectiveness of faults introduced during each

Constructive phase of software development for a particular software product is Ratio of (Actual project duration) to (estimated project duration)

(Number of pre-release Defects) to (number of pre-release Defects) to (number of pre-release Defects + number of post release Defects)

(Number of phase i errors) to (number of phase i errors + number of phase i defects)

(Number of failure) to (Execution time)

- 413. SRS is maintained in configuration environment as
 - a) Software design baseline

b) Software development baseline

c) Software artefact's

d) Software product baseline

- 414. Following is the SCM audit tool
 - a) Requirement metrics
- b) PERT charts
- c) Source Code
- d) Design Document

415. Delphi method of cost estimation uses



a) Functional point analysisc) PERT model using effort calculations	b) SLOC expressed in KDSId) Decomposition method of cost estimation				
415. Validate that the functions meet started requireme	ents or not is called as				
a) Unit testing b) System testing c) I	ntegration Testing	d) Acceptance Testing			
416. What do you mean by incremental testing? a) White box testing b) Black box testing	c) Top-down testing	d) Independent testing			
417. Verification should be performed for a) Requirements b) Design c) Code co	nstruction d) All of the	e above			
418. Validation is mostly used to determine the c) Correctness b) Consistency c) Consistency		tware/program. Quality			
419. Quality control procedures area) Preventive costs b) Appraisal costs c) I	Failure costs d) N	lone of the above			
420. Who should be involved in determined risk manage a) Customer b) Management c) D		d) All of the above			
421. Which of the following is an attribute of Quality?		•			
a) Process b) Product c) s	Standard d) P	olicy			
422. The system design SDLC phase is immediately follo a) Program and training b) Initiation	wed by c) Standard	d) Policy			
423. Resource planning, audit planning, estimation, schoin	eduling are the some of the ta	sks carried out			
a) Initiation phase b) System design phas	e c) Definition phase	d) Evaluation phase			
424. System reviews and software testing are examples a) Quality control b) Quality assuran		d) None of the above			
a) Registration b) Unit c) Sy	the code. ystem d) Static				
426. Which of the following is not a white box testing tea) Statement coveragec) Decision/condition coverage	echnique? b) Equivalence Par d) Multiple condition	_			
427. Which of the following task is not performed by v & a) Create the software v & v plan c) Support management and technical reviews	_	nagement review of v & v ess reviews			
428. A standard must be					
a) Measurable, Attainable and critical	b) Smart, Measurable and				
b) Measurable, Achievable and Clear	d) Approved, Available and	d Attainable			
429. Which are the four primary standards of ISO 9000? a) ISO 9000, ISO 9001, ISO 9004, ISO 10010	b) ISO 9000, ISO 9001, ISO) 9006, ISO 10011			



	c) ISO 9000, ISO	9001, ISO 900	04, ISO 10011	d) ISO 9	9000, ISO 900)1, ISO 9004,	ISO 10054
430.	a) Preventive, Corrective & control c) Preventive, appraisal & failure			b) Preventive, detective & control d) None of the above			
431.	AQL stands for? a) Allowable quali c) Acceptable qua	•		•	nted quality le ed quality lev		
	Quality assurance Controlling quality					d) Remova	of defects
433.	a) DFD			d analysis and to d) None			
434.	Reverse engineeri a) Database struc	_) Both 1 & 2	d) Nor	ne of the above
435. abov	System Test will n a) Approach e		c) Susp	ension and Resu	ımption crite	ria	d) None of the
436.	As series of defina a) Program	able, repeatab b) Proc		able tasks leading c) Activity	g to useful re d) Con		
437.	The first step in po a) Determine the c) Establish the o	budget		•	 mine the pro a team orga	=	
438.	Which of the follo a) Includes test co b) Exhibits strong c) Implements all d) Incorporates s	ases for all cor coupling bety requirements	mponents ween its modul s in the analysis	es s model			
439.	Which of the follo	_	eristics of a stro cohesion	ong deign? c) Modu	lar	d) All of the	e above
	Which of the follo a) Reduces techni b) Increases degre c) Increases vulne d) Increases deper	cal know-how ee of control rability of stra	for future inno	ovation			
441.	If a linear process a) Spiral	models all ste b) Prot	=	finishing of a ste c) Water fall mo	=	nodel called d) None of	the above
442.	Cyclamate Comple a) White box	exity method (b) Black		hich of the follogo c) Green box	wing testing	method? d) Yellow b	OX



443. Which of the following	provides the fou	ındation for team	development?	
a) Motivation		b) Organi	zational developme	ent
c) Conflict managemer	nt	d) Individ	ual development	
444. Which of the following	is a key to effect	ive software eng	neering?	
a) Good skills b) G	ood design	c) Good Manage	ement	d) None of the above
445. Estimation for the satis	faction of the ide	entified user nee	ds is known as	
a) Feasibility study		b) Require	ements evolution	
c) Requirements captur	e	d) None o	f the above	
446. Translating the algorith	m into a prograr	nming language (occurs at the	step of the SDLC
		Testing and Docu		d) Algorithm Development
447. Who designs and imple	ment database s	structures?		
a) Programmers	b) Project ma		chnical writers	d) Database administrators
448. The	determines	whether the pro	ject should go forv	vard or not
a) Feasibility assessmen		•	Opportunity ident	
c) System evaluation			Program specificat	
449. Actual programming of	software code i	s done during the		step in the SDLC
a) Maintenance and Eva		3	b) Design	
c) Analysis			, –	ent and Documentation
450. Evolutionary software լ	process models			
a) Are iterative in natur	_			
b) Can easily accommod		uirements chang	es	
c) Do not generally prod		_		
d) All of the above			,	
451. Which of the following	is not a part of t	esting?		
a) White box testing	b) Black	k box testing	c) Inner testing	d) Gorilla testing
452. Quality assurance				
a) Focuses on removal of	of defects before	release		
b) Is a set of planned an	d systematic act	ions to provide c	onfidence that a pr	oduct or service will satisfy
given requirements fo	r quality			
c) Is to check the systen	n for its interface	eerrors		
d) None of the above				
453 is t	he chain of activ	ities that determ		
a) Object points	b) LOC		c) Lines of code	d) Critical path
454. Debugging is a consequ	ence of			
a) An unsuccessful test				
b) An error in design				
c) A successful test				
d) A metric that descri	bes the degree t	o which a softwa	e product meets it	s requirements

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455.	In object-orientation, polymorphism means
	a) There can be many objects in the design
	b) Methods can be changed in many ways
	c) Many ways can be instantiated of a class
	d) Objects can implement the same method in many ways
456.	The spiral model of software development
	a) Ends with the delivery of the software product
	b) Is more chaotic than the incremental model
	c) Includes project risks evaluation during each iteration
	d) All of the above
	d) All of the above
457	The chiestine of coffeense against alonging is to
457.	The objective of software project planning is to
	a) Convince the customer that a project is feasible
	b) Enable a manager to make reasonable estimates of cost and schedule
	c) Make use of historical project data
	d) Determine the probable profit margin prior to bidding on a project
458.	Which of the following is not a section in the standard for SQA plans recommended by IEEE?
	a) Documentation b) Reviews and audits c) Test d) Budget
459.	Which of the following tasks is not part of software configuration management?
	a) Change control b) Reporting c) Statistical quality control d) Version control
460.	How many steps are in the program development life cycle (PDLC)?
	a) 4 b) 5 c) 6 d) 10
461.	is a measure of independence of a module or component?
	a) Cohesion b) Coupling c) Loop coupling d) Loop cohesion
462.	The purpose of requirement phase is
	a) To freeze requirements b) To understand user needs
	c) To define the scope of testing d) All of the above
	a) The define the scope of testing
463	A modular design has
	a) High cohesion, low coupling and high abstraction
	b) High cohesion, low coupling and low abstraction
	c) Low cohesion, low coupling and high abstraction
	d) High cohesion, high coupling and high abstraction
464.	The outcome of the analysis phase is
	a) Sufficient understanding of the problem to write a design specification.
	b) Sufficient understanding of the problem to write a formal description of it.
	c) Sufficient understanding of the problem to suggest a solution (or solutions)
	d) Sufficient understanding of the problem to write a code specification.
	a) same ent anacistanding of the problem to write a code specification.
465.	Corrective maintenance is related to
	a) Making the system more functional

b) Correcting the fault that could not be found during testing



c) Making the system work in new environmentd) All of the above	
466. Testing is done with the objective of a) Finding new errors in the software c) Both 1 and 2	b) Correcting errors in the software d) None of the above
467. If a software had 5 failures in 100 tests during 10 of a good estimate of the reliability of the software over to a) 0.0275 b) 0.5987 c) 0.0769	days of testing (Assume 10 tests Per day), what would be he Next week? (Assume 5 working days in a week) d) 0.9500
468. A requirements specification is a) A general list of things that the proposed software b) A precise and mathematical list of things that the c) A formal list of things that the proposed software d) A list of software and hardware resources needed	e proposed software ought to do must do
469. To achieve a good design, different modules shoula) Weak cohesion and low couplingc) Strong cohesion and low coupling	d have b) Weak cohesion and high coupling d) Strong cohesion and high coupling
 470. Which of the following is the input to the feasibilit a) Outline description of the system b) Set of preliminary business requirements c) How the system is intended to support business d) All of the above 	
471. Assuming that the tests are representative of the consoftware system that has had 10 failures in 200 tests a) 0.95 b) 0.9 c) 0	t cases.
472. A critical task is one with a) Minimum slack time b) Maximum slack time	e c) No slack time d) None of the above
473. Which of the following is identified as critical for sometimes a) Adopting SDLC configuration managementc) Both 1 and 2	uccess in software development process? b) Adopt Continuous risk management d) Choice 2 only
 474. How maintainability can be achieved? a) Through Error recovery b) When the S/W process evolves to reflect chan improvements c) Both 1 and 2 d) None of the above 	ged organizational requirements or identified process
475. Which testing methods are used by end-users who a) White Box testing b) Alpha and Beta testing	•
476. What do you mean by non-functional requirement a) User requirements b) Requirements definition	ts?

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c) A timing constraint placed on the system or the use of a specific language during Development



d) None of the above	
477. The project plan should be regularly revised deap a) Yes c) It cannot be changed, it is to be followed	b) No
 478. A program's control flow structure indicates	tructions are executed
479. Bar charts and activity networks are graphical a) Project Plan b) Project dependencies	notation which are used to illustrate the c) Project Schedule d) Project Risk Analysis
480. Which factor is not contributing to software co a) Larger problem sizes c) Low productivity improvements	risis? b) Skill shortage d) None of the above
a) Is an example of exploratory programme b) Is characterized by the assessment of man c) Both 1 and 2 d) None of the above	agement risk items
482. Cohesion is a) Measure of quality b) Concept related to testing c) Understandability d) Measure of closeness of the relationships be	petween the system's components
483. Which term defines the process of project cona) Quality control c) Quality audits	mpliance with policies and procedures? b) Quality assurances d) Quality control management
484. The data items that are exchanged between the a) Design phase b) DFDs	ne different functions are represented as c) ER Diagram d) Data Structures
485. Which of these terms apply to identify quality a) Quality projections b) Quality manage	•
486. Software engineering principles are based on a) Error correction b) Error prevention	
487. Acceptance test plan is	•
488. Visibility of design means	

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	a) Efficient designc) Good quality, consi	stent document		•	complex d e of above	_	
489.	Project quality manage a) All activities of the b) Performance qualit c) Error detection d) None of the above	performing organiza	tion that	determi	nes policie	es and resp	onsibilities of a project
490.	Important distinction la) Explicit consideration b) Explicit consideration c) Explicit consideration d) Explicit consideration	on of planning next pl on of Validation on of Risk Assessme r	hase nt and Re		tware pro	cess model	is
491.	Capability maturity mo a) Gives description fo b) States what activit c) Describes how activ d) Compare essential	or software process ies are necessary for vities are to be perfor	med	-			
492.	Validations is to check a) Whether we are bu c) The methodology o	ilding the product rig		-		_	the right product vare testing
(Which lifecycle model of effort from a team of a) Opportunistic			a comme		site that re Spiral	quires About 8 months
	Which of the following a) Water fall model	g s/w development life	e cycle sh	ows high	amount c	of risk analy	rsis? d) Incremental model
495.	Deliverables are usual a) True	ly milestones but mile b) False	estones n		oe delivera be true	bles	d) None of the above
496.	Design phase will usua a) Bottom-up	b) Top-down	c) Ra	ndom	d)	Centre frin	ging
497.	The execution of every a) Static analysis	possible test case is b) Dynamic testing			testing	d) Exhaus	tive testing
	Configuration Manage a) Controlling changes b) Choice of hardware c) Controlling docume d) Maintaining version	s to the source code e configuration for an ntation for an applica	applicat	ion			
499.	Which of the following a) The project schedu b) The project schedu	le is usually represent	ted a set		_		ties Dependencies and

staff allocations



- c) The project schedule is usually represented as a set of charts showing the work breakdown and activities dependencies
- d) The project schedule is usually represented as a set of charts showing the work Breakdown, activities dependencies and staff allocations
- 500. Which is true about regression testing?
 - a) Regression testing is carried out if the system underline is an upgraded or corrected Version
 - b) Regression testing checks that there is no side effect after changes
 - c) Both 1 and 2
 - d) None of the above
- 501. Which of the following is true about integration testing?
 - a) Integration testing aims to find out the errors related to various module interfaces
 - b) Integration testing is a kind of testing, which is carried out while constructing or integrating the system
- c) Integration testing is a kind of testing, which is carried out after constructing or integrating the system

,,,,,	d) Both 1 & 2			
502.	Which of the following i a) WM_TIMER	is not a queued message? b) WM_QUIT c) WM	/_COMMAND	d) None of these
503.	Which of the following i a) Bitmap	is not a resource? b) Dialog box Template	c) Html document	d) None of these
504.	Which of the following tags:	the resource? b) Html document	c) Dialog templates	d) All of the above.
505.	Which function is used tags a) Equal to	to compare the regions? b) EqualRgn	c) CompareRgn	d) CmpRgn
506.	Which of the following i a) WM_COMMAND	is non queen message? b) WM_QUIT	c) WM_TIMER	d) All of the above
507.	Which function is used t a) Convert	to convert white to black and b) Invert c) Inse		ne of above
508.		py and stretch the bitmap? etchBlt c) Patblt	d) None of ab	ove

- 509. Which of the following is a resource?
 - a) Bitmap b) Dialog box template c) Html document d) All of the above
- 510. By default polygon is?
 - a) Dot-dash b) Solid c) Transparent d) None of the above
- 511. Begin thread present in which header file?
- a) Winuser.h b) Window's c) Process's d) None of the above
- 512. What function to stretch the bitmap is used?
- a) Stroll () b) Bit blt c) Stretchable () d) Bitmap
- 513. Which of the following not Virtual key?

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	a) VK_PREV	b) VK_NEXT	c) VK_UP	d) None	
514.	Which of the following i a) Get message () c) Dispatch message ()	is the blocking function	n? b) Post quit message d) Translate message		
515.	To achieve a good desig a) Weak cohesion and c) Strong cohesion and	low coupling	b) Weak cohe	sion and high coupling esion and high coupling	
516.	Spiral model a) Is an example of exp b) Is characterized by t c) Both 1 and 2 d) None of the above				
517.	Cohesion is a) Measure of quality b) Concept related to te c) Understand ability d) Measure of closeness		petween the system's o	components.	
518.	The data items that are a) Design phase	exchanged between t b) DFDs	he different functions c) ER Diagram	are represented as d) Data Structure	
519.	Which of the following sa) Water fall model				mental model
	Design phase will usuall Bottom-up	y be b) Top-down	c) Random	d) Centre fringing	
521.	Software engineering page a) Error correction		ntion c) Error detec	tion d) None of the	above
522.	Which of the following a a) Waterfall	are SDLC process mode b) V-shape	els? c) Spiral	d) All of the ab	ove
523.	Deployment of a system a) Activities performed b) Implementing the dec) The transition of the d) None of the above	in system testing esign into executable o		operational phase.	
X1: C X2: F X3: C X4: F Y1: F Y2: S	Please match the Spiral Objective setting Risk assessment and reduced openent and validate Planning with their corrersks are assessed and acceptain objectives for the The project is reviewed a	uction tion ct characteristics: ctivities put in place to e phase are identified	·		

Y4: A development model for the system is chosen which can be any of the generic models



a) X1-Y3, X2-Y1, X3-Y2 X4-Y4 c) X1-Y2, X2-Y1, X3-Y4 X4-Y3			b) X1-Y2, X2-Y3, X3-Y4 X4-Y1 d) X1-Y3, X2-Y2, X3-Y1 X4-Y4			
				, , -		
525.	a) Why	nt should specify b) What	 c) How	d) All of the	above	
	b) Adds risk and	rowaway versior alysis, and 4gl RA of the Waterfall t	n intend to test concept D prototyping to the wa hat emphasizes the ver	aterfall model	ation?	
	Just as the enti (Win Mair		ogram is the function m	ain(), the entry poi	nt to a Windows program is	
528.	The three main	Windows librari	es are,	&	(Kernel.32, User32, GDI3	32)
529.	The size of Unio	code character is	bits. (32)			
530.	Create Window	\prime () function send	ls the mess	age. (WM_CREATE		
531.	Update Windov	w () function sen	ds the mess	sage. (WM_PAINT)		
532.	Post Quit Mess	age () function p	osts the me	essage. (WM_QUIT		
533.	Get Message ()	function retrieve	es a message from the _	(M	essage queue)	
534.	Get Message ()	returns, w	hen it retrieve WM_QU	IT message form th	ne message queue. (0)	
535.	Translate Mess	age () function is	used for trans	lation. (Keyboard)		
536.	Window proced	dure function is a	a function	n. (CALLBACK)		
537.	TA program car	n call its own win	dow procedure by using	g the fu	nction. (Send Message)	
538.	Dispatch Messa	age () function pa	esses the MSG structure	back to	(Windows)	
539.	The very first m	nessage that a wi	ndow procedure receive	es is	(WM_CREATE)	
540.	Register Class () associates a wir	ndow procedure to the	(wind	ow class)	
541.	Window messa	ges are defined i	n both windows' and	header t	files. (winuser.h)	
	Everything that edure)	happens to a wi	ndow is relayed to the _	in the f	form of message. (Window	
543.	AP	I is used for sub	classing. (Set Window L	ong())		
544.	АР	'I is used for char	racter translation of key	strokes. (Translate	Message())	





546. Message occurs when the user clicks an item on the menu bar or presses a menu
key.(WM_INITMENU)
547 API is used to kill a modal dialog box. (End Dialog())
548, and are windows resources defined in a .Res file.
(Any three of these –ICON / CURSOR / STRINGTABLE / DIALOG / MENU / BITMAP)
549 API is used to set the text of an edit control. (Set Window Text())
550 And are GDI objects.
(Any two from Brush / Pen / Region / Font / Palette / Bitmap)
551. When there is no message in the queue, Peek Message () function returns a) True b) False
552. System keystrokes are generated for keys typed in combination with the key. (Alt)
553. System keystroke messages are and (WM_SYSKEYDOWN, WM_SYSKEYUP)
554. The virtual key code is stored in the parameter of the WM_KEYDOWN message. (wParam)
555. The repeat count field is stored in the parameter of the keystroke messages. (IParam)
556 Function is used for checking the type of information available in clipboard. (Is Clipboard Format Available ())
557 Function is used to open the clipboard. (Open Clipboard())
558 Function is used to clear the clipboard. (Empty Clipboard ())
559. Window messages are defined in both windows. h and header files. (winuser. h
560, and are windows resources defined in a .Res file. (Any three of these -ICON / CURSOR / STRINGTABLE / DIALOG / MENU / BITMAP)
561 Function is used to clear the clipboard. (Empty Clipboard())
562. Get Message () returns, when it retrieve WM_QUIT message form the messagqueue. (0) (window class)
563. Window messages are defined in both windows.h and header files. (winuser.h)
564. Message occurs when the user clicks an item on the menu bar or presses a menu key. (WM_INITMENU)
565. The repeat count field is stored in the parameter of the keystroke messages. (IParam)
566. Software acts with a dual role as – a) Application software and embedded software b) Embedded software and Product-line software

c) Software product and Environment or application tool for software product development

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d) Application software and Data storage

567	Software Engineering	•	h) D	- d - al - a - al 8 4 - 1 b - a - d -	
	a) Process, Methods,c) Methods, Tools, and		•	oduct, and Methods ocess, and Product	
	c) Wicthous, 100is, and	и георіе	α, τ εσρίε, ττο	ecss, and i roddet	
568		owing is correct list of p	•		
	a) Waterfall, Incremen			terfall, V-shaped, Pro	
	c) Prototyping, Spiral,	Adaptive S/w developm	nent d) Wa	terfall, Incremental,	V-shaped
569	Customer needs impo	ortant functionality to b	e implemented at earlie	est?	
	a) Waterfall	b) Prototyping	c) Incremental	d) RAD	
-70	Diale and built and Aal I	0.0 D			
5/0	. Risk analysis and 4gi i a) Spiral	RAD prototyping is adde b) Prototyping	c) V-shaped	d) RAD	odei
	ај эрнаі	b) Prototyping	c) v-snapeu	u) NAD	
571	model is a variar	nt of the Waterfall mode	el, which also emphasiz	es the verification ar	nd validation
	a) Waterfall	b) Prototyping	c) Incremental	d) V-shaped	
-7 2	De avidue use ust als avidat.				
5/2	Requirement should s	specify to complete the projec	·+		
	b) Resource requirem		, l		
		nematical list of things	that describes what nro	onosed software sho	ould provide
		to develop the system	that describes what pro	oposeu sortware siic	odia provide
	a, 2 333p a. 31. 11. 11.				
		ed to rank / prioritise re	quirements & discuss co	onflicts in priority in	stage of
-	uirement engineering.				
а) Conflict resolution	b) Elaboratio	n c) Specificatio	n d) N	egotiation
574	Use-cases are defined	I from point of view	W		
57 1	a) An actor's	b) A function's	c) An actor and funct	ions d) None of t	he above
				,	
575		s, Organizational require			ole of
	a) Domain requireme			onal requirements	
	c) Functional require	ments	d) None of the	e above	
576	Which of the followin	g models collectively fo	rm the design model?		
		itectural design, Interfa	•	Design	
	•	tectural design, System	•	•	
	c) Architectural design	n, Interface Design, Fur	nctional design, Class de	esign	
	d) None of the above	2			
577	Cohesion is				
5,7		ion of the degree to wh	nich a module focuses o	on just one thing	
	•	on of the degree to whi		•	& to outside
wor		5			
	c) Both 1 & 2				

d) None of the above

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- 578. 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
- 579. 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
- 580. 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
- 581. 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

- 582. ----- is conducted at developer's site by end-users
 - a) Beta testing
- b) Alpha testing
- c) White box testing
- d)None of the above

- 583. Unit testing is
 - a) A Black box testing

- b) A White box testing
- c) An User Acceptance Testing
- d) Not a testing
- 584. ---- 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
- 585. 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
- 586. Consider the following data for the effort spent on various tasks in project
 - a) Coding 120
- Self-code walk-thru 04
- Code review 06
- Rework (Bug fixing) 37
- Training 02
- Tool Development 10
- Testing-35
- Preparing check list 01
- 587. Warranty work is an example of -----
- a) Prevention cost
- b) External failure cost
- c) Internal failure cost
- d) All of the

above

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588.	M	atch th	ne follo	wing								
a) In	ter	nal fai	lure co	st	i) E	Efforts spei	nt in pos	t-deliv	ery defe	ct fixing	5	
b) Appraisal Cost					ii) I	Efforts spe	nt in pre	-delive	ery defe	ct fixing		
c) External failure cost			-	-	-		_	, tools	developme	nt & training		
		ention			IV) Efforts	spent on r			_			
-		b-iii		d-I			b) a-iv		c-iii	d-i		
c) a-	1	b-iii	c-ii	d-iv			d) a-ii	b-iv	C-i	d-iii		
589.	Th	iere ar	e lev	els of C	MMi							
		a) 5			b) 3	c) 1		d) 6				
590.	a) b) c)	Hardy Frame Only t	vare & s ework t	software t hat hel p of risks i	planning is requirements reps to make dentified	ent		tes of	resource	es, cost a	and schedul	e
591.					ement from				_			
	-	-			ould not be	•		-	•			· ·
					ould be upd					ct		
	-	_	of the		ould be upo	iated as th	e projec	t prog	resses			
	u	, ivolic	. Of the	above								
592.	Th	e purr	ose of	project	manageme	nt is –						
				preven				b) Pre	diction	and read	ction	
	-			d reactio					ne of the			
593.					gement is							
	a)	A pha	se	b) An	umbrella ad	ctivity	c) A m	leston	е	d) Non	e of the abo	ve
594.	a) b) c)	Gantt Gantt CPM i	charts chart s s used	are ofte hows bo for findi	ving is FALSI n used for coth planned ng total prongest path t	displaying t and actua oject cost	he proje I schedu	le info	rmation			
	uj	Cittice	ai patii	is the lo	ingest patific	inough th	TICTWO	i k ulug	,i aiii			
595.	In	Softw	are pro	ject mai	nagement, 4	4 Ps have to	be ma	naged	in follow	ing orde	er -	
			-	=	uct, Process			_		_	People, Pro	duct
	c) l	People	e, Produ	uct, Prod	cess, Projec	t		d) Pro	duct, Pe	eople, Pr	ocess, Prob	lem
596.					Risk ide	entificatior						
	a) Proc	ess dec	omposit	ion		b) FP E	stimat	tion		c) COCOMO	estimation
597.	Or	ne of t	he limit	ations o	of FP analysi	s is						
	•			fort is sn					•		erification	
	c) l	Does n	ot pro	vide pha	ise-wise bre	eak up			d) Nor	e of the	above	
					ving is true?		lestones	need	not be o	deliveral	bles	

b) All milestones are deliverables

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- c) Deliverables & Milestones are always deliverables
- d) None of the above
- 599. Risk assessment is done in
 - a) Analysis Phase
- b) Design Phase
- c) Coding Phase
- d) All phases of the project

- 600. Risk score (or Risk Exposure) is a product of
 - a) Probability of occurrence and Impact on project should the risk occur
 - b) No. of resources on project and daily per person rate
 - c) Probability of occurrence and total No of resources
 - d) None of the above
- 601. Risk assessment Process involves
 - a) Risk identification, Treating problems, Issue resolution
 - b) Identify problems, Resolve problems, Report problem
 - c) Risk Identification, Assessment & Measurement, Planning, Tracking, Control
 - d) None of the above
- 602. In Risk management, the purpose of Risk Assessment is
 - a) To convert risk data into decision making information
 - b) To shift the impact of the threat to a third-party
 - c) To reduce probability and impact
 - d) To define roles and responsibilities
- 603. Does an organization develop one life cycle model?
 - a) For all the projects
- b) For each project
- c) For each domain

- 604. Pick up the odd one out of the following:
 - a) Software Design

- b) Software Testing
- c) Software Quality Assurance

- 605. Software requirements should not be
 - a) Functional

- b) Ambiguous
- c) consistent

- 606. Find the odd one out of the following:
 - a) Stepwise refinement
- b) Structural design
- c) Information hiding
- 607. What manifests in the patterns of choices made among alternatives ways of expressing
 - a) An algorithm is

b) A data flow diagram

c) Coding style

d) A data dictionary

- 608. The decision logic is expressed by
 - a) Data flow diagram
- b) Flow chart
- c) Structure chart

- 609. Validation is to check
 - a) Whether we are building the product right
 - b) Whether we are building the right product
 - c) The methodology of software development
- 610. Corrective maintenance is to
 - a) Improve the system in some way without changing its functionality

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- b) Correct the undiscovered errors
- c) Make changes in the environment
- 611. Analysis phase is
 - a) Not to actually solve the problem
 - b) Not to determine exactly what must be done to solve the problem
 - c) To move quickly to program design
- 612. Object models
 - a) Should include details of the individual objects in the system
 - b) Are part of design?
 - c) Are natural ways of reflecting the real world entities that are manipulated by the system?
- 613. The three classes of interface errors are:
 - a) Interface misuse, interface misunderstanding, timing errors
 - b) Interface misunderstanding, interface coupling, data transfer errors
 - c) Interface coupling, timing errors, interface parameter errors
- 614. Find the activity which is not part of version management
 - a) Controlled change
- b) Storage management
- c) Coding standard
- 615. Which is the non-technical factor of maintenance cost?
 - a) Program age
- b) Programming style
- c) Program validation

- 616. Software quality assurance is
 - a) A multi-tiered testing strategy
 - b) A measurement and reporting mechanism
 - c) An activity that is applied throughout the software process.
- 617. Most common but least effective way of debugging is
 - a) Brute force
- b) Backtracking

c) Cause elimination

- 618. Equivalence partitioning is
 - a) A white-box testing method
 - b) A black-box testing method
 - c) Neither white-box nor black-box testing method
- 619. Doing what is said one would do, is the definition for
 - a) Reliability
- b) Quality
- c) Software plan
- 620. The typical elements of the requirements engineering process are
 - i) Problem analysis

ii) Software design

iii) Analysis of staffing needs

iv) External behaviour specification

- a) i and iv
- b) ii and iii
- c) i, iii and iv
- d) i, ii and iii
- 621. In object models, information hiding conceals
 - a) Operations
- b) Attributes
- c) Methods
- d) State and behaviour
- 622. Which of the following types of test plans is most likely to arise from the Requirements specification process?

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- a) System integration test plan
- c) Sub-system integration test plan

- b) Acceptance test plan
- d) Module test plan

Fill in the blanks	
623	is an iterative process through which the requirements are translated into
624. A "blueprint	" for constructing the software.

625. The sooner you begin _____, the longer it will take to get done.

Answers the followings in brief:

- 626. Explain the concept of black box.
- 627. What are the qualities of software?
- 628. Give the various steps in prototyping.
- 629. What are the various fact-finding Techniques?
- 630. What are the types of decision tables?
- 631. What are the structures of Structured English?
- 632. Give a brief note on acceptance testing.
- 633. Define coupling and cohesion.
- 634. What is maintenance? Explain about various types of maintenance.
- 635. Differentiate between Decision Tree and Decision Table.
- 636. Give the coding guidelines.
- 637. Give the debugging approaches.
- 638. Why Software doesn't wear out.
- 639. Explain about Dos and Don'ts of good coding style.
- 640. Give the contents of SRS document.
- 641. Explain briefly about SEI CMM.
- 642. What is feasibility study? Explain about various aspects of feasibility.
- 643. Define normalization and explain about first three normal forms.
- 644. What is changeover? What are the types of changeover?
- 645. Differentiate between Black Box and White Box testing
- 646. Explain about Interview as a Fact Finding technique
- 647. What are the various factors that influence software cost-estimation?
- 648. Write a short note on structured charts.
- 649. Explain about the various concepts of a system.
- 650. Give Salient features of CASE tools.
- 651. Explain about various stages of software Development according to classical life cycle.

Answers the followings in detail:

- 652. Compare and contrast the two life cycle models viz. Waterfall and Spiral models. (Mention at least three distinct aspects).
- 653. State the importance of requirements management in a software development
- 654. Discuss and compare the coupling and cohesion in software design
- 655. Discuss the trade-off between error checking execution time / memory space overhead.
- 656. How can the overhead be reduced or eliminated?
- 657. Give some reasons for using global variables than parameters. What are the potential Problems created by the use of global variables?
- 658. Develop test plan for the library management system (List at least three test cases).
- 659. Explain why it is very difficult to produce a complete and consistent set of requirements.
- 660. Discuss the differences between object-oriented and function-oriented design strategies
- 661. Explain why maximising cohesion and minimising coupling leads to more maintainable Systems
- 662. Show using a small example, why it is practically impossible to exhaustively test a Code.

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- 663. List at least five distinct tests to exercise the various features of the PowerPoint Software used for slide preparation and projection.
- 664. Develop a high level data flow diagram for an airline reservation system
- 665. Develop test plan for the library management system (List at least five test cases).
- 666. Rewrite the following requirements so that they may be objectively validated. You may
- 667. 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.
- 668. Model the data processing which might take place in an electronic mail system that can Send and receive messages from remote computers.
- 669. Discuss the advantages of incremental model as compared to water fall model.
- 670. Can a program be correct and still not be reliable? Explain
- 671. Discuss how you would approach the top-down design of a software system.
- 672. Discuss the advantages and disadvantages of using the "ant bugging" technique to Provide built-in debugging assistance to uncover errors.
- 673. Discuss at least three reasons that would highlight the importance of software Maintenance.
- 674. Compare and contrast the white-box and black-box testing methods.
- 675. Discuss the importance of documentation in software development.
- 676. Discuss the pros and cons of the COCOMO model for cost estimation
- 677. Make a structure chart for the following:
- 678. Given an array of integers, arrange them in ascending order using quick sort method.
- 679. Develop a software review checklist for use by the designer and the implementer. What issues are important to each of these roles?
- 680. Develop a high-level data flow diagram and a structure chart for an airline reservation System.
- 681. Develop an architecture and also flow diagrams (up to 2 levels) for the following:

"Consider the automation of the transaction at the registration counter of a post-office. A Scanner is provided to capture the "from" and "to" addresses from the envelop. The clerk uses your software to issue receipts to the customers. This is expected to reduce the

Waiting time at the counter."

Suppose that a 50-KDSI (Thousands of delivered source instructions) application

Program can be purchased for Rs. 2,000,000/-. Assuming that your in-house programmers Cost Rs.30, 000/-per programmer month (including overheads), would it be more cost Effective to buy the product or to build it?

A Manager decides to use the reports of code inspections as an input to the staff Appraisal process. These reports show who made and who discovered program errors. Is This ethical managerial behaviour? Would it be ethical if the staff were informed in advance? That this would happen? What difference might it make to the inspection process?

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

682. 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 students including personal information, courses taken, and Examination marks achieved. The alternative

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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.
- 683. Consider the error messages produced by MS-DOS or UNIX or WINDOWS operating System. Suggest how they might be improved.
- 684. Develop at least two levels of procedural abstraction for implementing the savings bank Transactions in a banking system.
- 685. 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.
- 686. Design test cases for the following problem: Given a quadratic equation, solve it to find the roots.
- 687. 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.
- 689. 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
- 690. Discuss the advantages and disadvantages of using the "antibugging" technique to provide built-in debugging assistance to uncover errors.
- 691. 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.
- 692. Draw a flow graph for the following and find its cyclomatic complexity: Given 1000numbers, arrange them in ascending order using any one of the sorting methods.
- 693. Design test cases for the following problem: Given a quadratic equation, solve it to find the roots.
- 694. Draw the context level diagram for a payroll system
- 695. Prepare Context diagram for the saving bank deposit and withdrawal system in a nationalized bank. Also draw the first level DFD for the same.
- 696. Rational College of Commerce is an undergraduate College. The college receives sufficiently large number of applications for admission to FY, SY and TY. B com classes.
 - The college has decided to computerize its admission program. 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 list and admitting students

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As per norms, notifying students, collecting fees, preparing and submitting reports to the concerned authorities You are required to identify: (i)Entities: a) Processes b) Data flows c) Data Stores 691. Which SDLC Model is best suited when only part/some of the requirements are known at the beginning a) Waterfall Model b) Incremental Model c) Prototype Model d) Spiral Model 692. In case of Bank, what will be the relationship between "Opening of Account" use case and "Deposit" Use case? a) Uses b) Extends c) Includes d) None of the above 693. ______is an entity that is external to the system & directly interacts with the system and deriving some benefits from the interaction. a) Actor b) Use case d) Relationship c) Class 694. Review activity of any software is under which kind of Testing? b) Static Testing a) Black Box Testing c) Dynamic Testing d) White Box Testing 695. Equivalence Petitioning is a test case generation technique, for_____ kind of Testing Technique. a) Static Testing b) White Box Testing c) Black Box Testing d) Red Box Testing 696. In the Project Management Triangle. Which parameter is most important? d) All of the above are equally important a) Time b) Scope c) Cost 697. Quality assurance help for a) Process improvement b) Testing c) Removal of defects before release d) All of the above 698. Refers to the support phase of software development. a) Adaption b) Enhancement c) Maintenance d) Actions 699. Which one of the following is the process of factoring the design module? a) Software re-engineering b) Configuration management c) Software maintenance d) software Refactoring 700. Which of the following process is not part of Project Risk Management? a) Risk Identification b) Effort estimation d) Risk Response Development c) Risk Analysis 701. Enhances performance 8. Functionality of the software after delivery. a) Re-design b) Re-engineering c) Maintenance d) Post checking 702. Which of the following is not a stage of requirement engineering process? a) Feasibility study b) Requirement analysis c) Requirement definition d) Implementation 703. Which of the following are objectives for formal technical reviews?

704. Allow senior staff members to correct errors Uncover errors in software work products

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705. Assess programmer p	roductivity determining	who introduce	ed an error into a	program	
706. Which of the following a) Product review mee c) Sprint planning mee	eting	Scrum?		review meeting retrospective meeting	
707. In Scrum, the prioritize a) Sprint planning	ed work to be done is re b) Product ba		int retrospective	d) Standup meetings	
708. Software risk impact a a) Planning resources c c) Business, technology	ost & schedule	on consequer	b) Marketability	oost & personnel support, oost & schedule	
709. The process starting w a) Top-down integrati c) Module integration	on	es is called	b) Bottom-up in d) None of the a		
710. To check whether we a This is known as static a) Validation				mer requirements or not.) Quality Control	
711. A reliable system will k a) That is unlikely to be c) That is likely to be f	e completed on sdtedul	e		ly to cause a failure to be liked by the users	
712. To test a function, the a) Stub	programmer has to wri b) Proxy	te a passes it t c) Driver		of the above	
713. Which calls the function	on and 90?				
 714. When a new testing tool is purchased.it should be used first by: a) A small team to establish the best way to use the tool b) Everyone who may eventually have some use for the tool c) The independent testing team d) The vendor contractor to write the initial scripts 715. Pick up IEEE the best definition of software engineering? a) Set of computer programs. Procedures and possibly associated document conoemed 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 					
716. Agile methods are kno	wn as				
a) Predictive	b) Adaptive	c) Process Or	iented d) Sho	ort term process methods.	
717. The identification of st a) Elicitation	akeholders and user cla b) Analysis	asses in require c) Verification	-	=	

718. Which among the following gives a chronological record of relevant details about the execution of tests?



a) Test incident re	eport b) To	est log	c) Test summ	ary report	d) None of the above
719. What is not inclu a) Scope	ded in a System Red b) Specific Required		fication Docume sign Solutions	ent? d) Referenc	es
720. Project risk facto a) Spiral Model		c) Prototyp	ing Model	d) Iterative	enhancement Model
721. Formal Reviews of a) Inspections	of an individual prod b) Checkpoi		luate correctne c) Testing	ss based on its d) Walkthrou	•
722. Which of the belo a) Identify Cons	· · · · · · · · · · · · · · · · · · ·	is not part of Pro lentify Algorithm	-	ify Risks C	d) Identify Milestones
723. Which Agile princ a) Incremental D	ciple can help in cha relivery b) Co			PMO Policy	d) Latest Technology
724. Risk analysis and a) Spiral	4gl RAD prototypin b) Prototyping	g is added to the c) V-shaped		el to form a m RAD	odel.
725. Which of these is development? a) Inception phase	not one of the pha b) Elaboration		ed by the Unified		el for software d) Validation phase
b) A software sy c) Pareto princip	owing is not one of ould be as simple as estem exists only to ole (20% of any produce oth	possible, but no provide value to duct requires 80°	simpler its users. % of the effort)	vare engineeri	ng practice?
a) Allows developb) Delivery sched	pers to make chang lule can be revised to identify dwanges	es to the deliver to reflect change	ed increment es		ing delivered software?
728. Which of the follo	owing is not genera b) End-user	=	player in the so es people		s? oject managers
729. Does an organiza a) For all the pro		ecycle model? or each project	c) For	each do main	
730. Pick up the odd c a) Software Desig		ving: b) Software T	「esting	c) Sof	tware Quality Assurance
731. Software require a) Functional	ements should not b b) Ambiguo		c) Consistent		
732. Find the odd one a) Step wise refir		g: b) Structural	design	c) Informatio	n hiding

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b) Coding style c) A data dictionary

 $733.\ What manifests in the patterns of choices made among alternatives ways of expressing an algorithm is$

a) A data flow diagram



734. The decision I a) Data flow o	•	by b) Flow ch	art	c) Structure chart		
b) Whether we	o check are building the pare building the pare building the pology of software	right produ	ct			
b) Correct the		ors	ut changing its fun	ctionality		
a) Not to actualb) Not to dete	737. Analyse is phase is a) Not to actually solve the problem b) Not to determine exactly what must be done to solve the problem c) To move quickly to program design					
	Agil	e Soft	ware Dev	elopment		
 Select the option a) Individuals and Responding to a 	interactions	b) Workir	e Software Develop ng software he mentioned	ment c) Customer collaboration		
2. Agile Software Dea) Incremental Ded) Waterfall Mod3. Which on of the formula of the form	evelopment el	b) Iterati e) Both		c) Linear Development		
a) XP	b) 4GT		c) AU	Р		
4. Agility is defined a	s the ability of a pro	oject team to b) False	o respond rapidly to	a change.		
5. How is plan driver a) Outputs are decid b) Specification, des c) Iteration occurs w	ed through a proce ign, implementation	ss of negotia	ition during the soft	ware development process.		
6. How many phases a) Two	are there in Scrum b) Three	? c) Four	d) Scrum is an agil	e method which means it does not have phase		



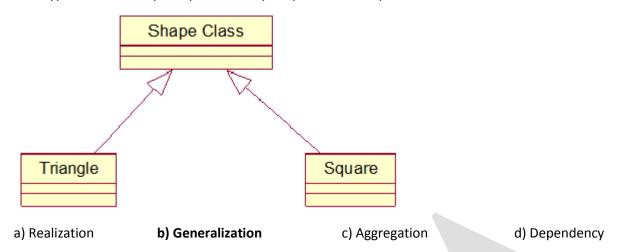


		embers have a relatively hig	h skill level.	
a) True	b) F	False		
8. Which of the following of	does not apply to agility t	o a software process?		
a) Uses incremental produ	ct delivery strategy	b) Only es	sential work products are produce	d
c) Eliminate the use of pro	ject planning and testing	g		
9. Which three framework	activities are present in	Adaptive Software Develop	ment (ASD)?	
a) Analysis, design, coding	·	•	aptive cycle planning, iterative	
development	,	, 5	, , ,	
c) speculation, collaborati	on, learning			
10. In agile development it	is more important to bu	ild software that meets the	customers' needs today than wo	rrv about
features that might be nee	·			,
a) True		b) False		
·				
		UML - 1		
1. Which of the following l	JML diagrams has a station	c view?		
a) Collaboration	b) Use case	c) State chart	d) Activity	
2. What type of core-relati	onship is represented by	the symbol in the figure be	elow?	
•				
<u> </u>				
*				
a) Aggregation	b) Dependency	c) Generalization	d) Association	
3. Which core element of U	JML is being shown in th	e figure?		
\top				
Т				
a) Node	b) Interface	c) Class	d) Component	
a) Nouc	b) interface	cj Class	a) 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
 - c) Deployment Diagram + Collaboration Diagram
- b) Activity Diagram + State Chart 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

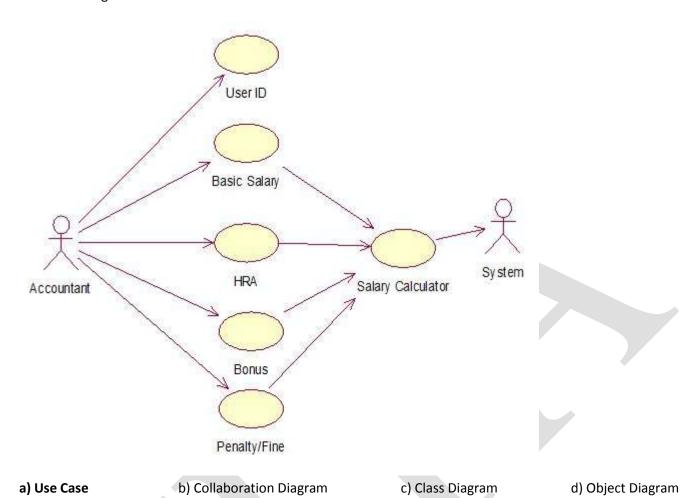
- 1. How many diagrams are here in Unified Modelling Language?
 - a) Six
- b) seven
- c) eight

d) nine





2. Which UML diagram is shown below?



- 3. Which UML diagram is shown below?
 - enter details initilization IDLE Login cancellation of booking book the check status ticket Ticket Availability Cancel Book and Status Booking Ticket Update Booking Details

c) Activity

b) State Chart

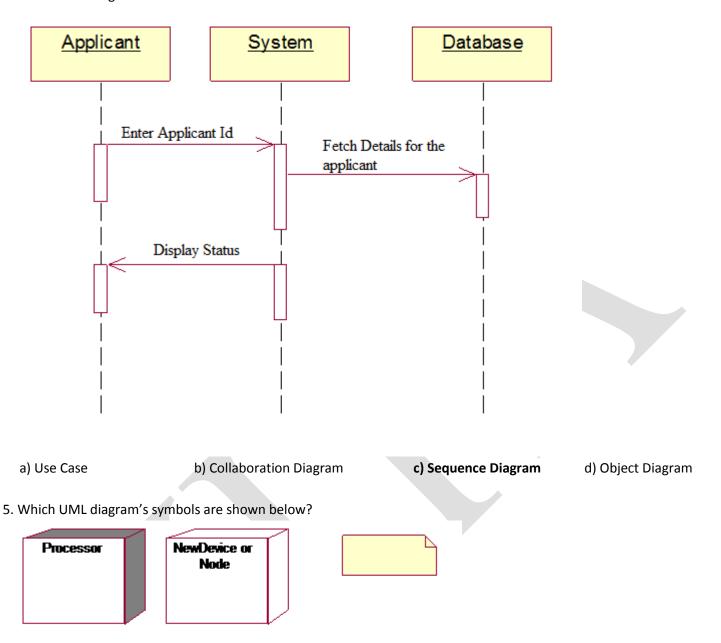
d) Object Diagram

a) Use Case





4. Which UML diagram is shown below?

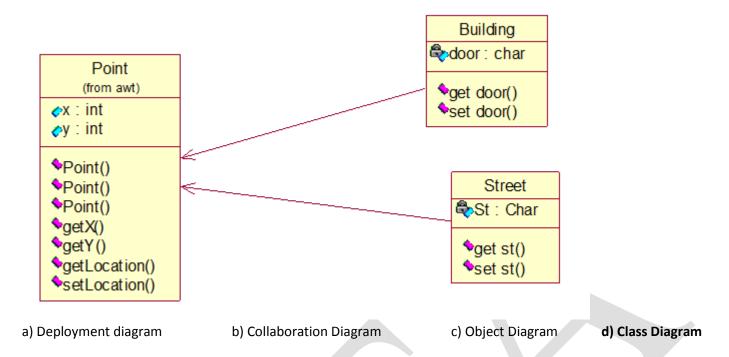


- a) Deployment diagram
- b) Collaboration Diagram
- c) Component Diagram
- d) Object Diagram

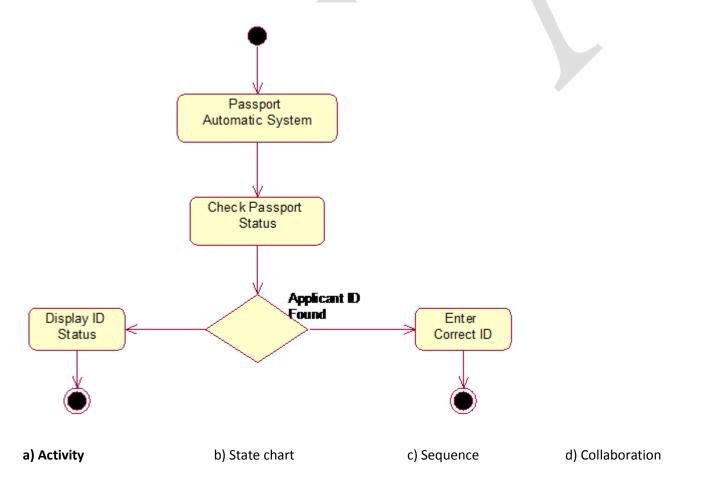
6. Which UML diagram is shown below?

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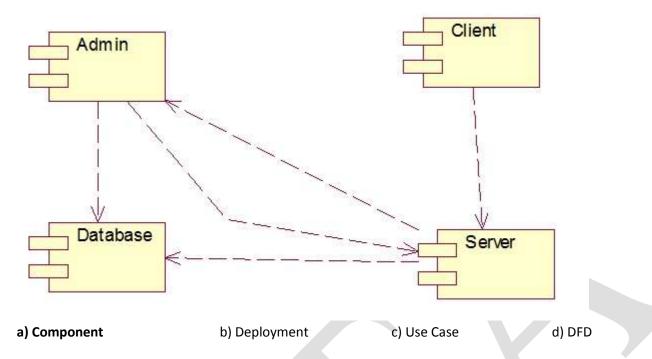
7. Which UML diagram is shown below?



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8. Which UML diagram is shown below?



Software Testing Techniques - 1 1. Which of the following term describes testing? a) Finding broken code b) Evaluating deliverable to find errors A stage of all projects d) None of the 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 b) practically possible c) impractical but possible d) impractical and impossible 7. Which of the following is/are White box technique?

c) Condition Coverage

c) Integration Testing

b) Decision Testing

b) System Testing

d) All of these

d) All of the mentioned

8. What are the various Testing Levels?

a) Statement Testing

a) Unit Testing

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9. Boundary value analysis belong to?

a) White Box Testing

b) Black Box Testing

10. Alpha testing is done at

a) Developer's end

b) User's end

Software Testing Techniques - 2

1. The testing in which code	e is checked		
a) Black box testing	b) White box testing	c) Red box testing	d) Green box testing
,	inning and Documentation is ca		
a) Unit testing	b) Regression testing	c) Adhoc testing	d) None of the mentioned
3. Acceptance testing is also	o known as		
a) Grey box testing	b) White box testing	c) Alpha Testing	d) Beta testing
-, -, -,,	u,	97	
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) Develope	er's end	
6. SPICE stands for			•
	rement and Compatibility Dete	rmination	
•	vement and Control Determina		
·	vement and Capability Determ		
d) None of the mentioned	, , , , , , , , , , , , , , , , , , , ,		
-,			
7. Unit testing is done by			
a) Users	b) Developers	c) Customers	
8. Behavioural testing is			
a) White box testing	b) Black box testin	g c) Gre	y box testing
Which of the following is			
a) Basic path testing	b) Boundary value analysis	c) Code path analysis	d) None of the mentioned
10. Which of the following i	is not used in measuring the si	ze of the software	
a) KLOC	b) Function Points	c) Size of module	9
	I if a C	ala Madala	
	Life Cy	cle Models	
1. Build & Fix Model is suita	able for programming exercises	of LOC (Line of	Code).
a) 100-200	, ,		, ve 1000
,	,	, ,	
2. RAD stands for			
a) Relative Application Deve	elopment b) Rapid App	lication Development	c) Rapid Application Document

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3. Which one of the following	g models is not suitable fo	or accommodating an	y change?	
a) Build & Fix Model	b) Prototyping Model	c) RAD Moo	del d)	Waterfall Model
4. Which is not one of the ty	pes of prototype of Protot	typing Model?		
a) Horizontal Prototype	b) Vertical Prototype	c) Diagona	Il Prototype	d) Domain Prototype
5. Which one of the followin	ng is not a phase of Prototy	ping Model?		
a) Quick Design	b) Coding	c) Prototyp	e Refinement	d) Engineer Product
6. Which of the following sta a) No room for structured do c) Maintenance is practically	esign	b) Code soon be		le & unchangeable
	That possible	u) it scales up	ven to large pro	njects
7. RAD Model has a) 2 phases	b) 3 phase	c) 5 phases	d) 6	phases
8. What is the major drawbaa) Highly specialized & skillec) Encourages customer/clie	ed developers/designers a	re required.	b) Increases d) Both a &	re-usability of components.
9. SDLC stands fora) Software Developmentc) Software Design Life Cyc			b) System Deve d) System Desig	lopment Life cycle n Life Cycle
10. Which model can be sele a) Waterfall Model	ected if user is involved in a b) Prototyping Model	all the phases of SDLo		d) both b & c
F	unction Orie	nted Softw	are Des	ign
1. Choose the option that do a) It consists of module definabstraction		iented Software Desi present data abstrac		dules support functional
2. Which of the following is a) Object oriented analysis	a complementary approac b) Object oriented des			d) Both a and b
3. Function-oriented design a) SDD	techniques starts with fun b) SRS	·	s specified in None of the me	ntioned
4. Structured Analysis is base	ed on the principles of			
a) Top-down decompositionc) Graphical representation		•	vide and conque I of the mention	, ,
5. Which of the following is/a) A function such as "searchb) Functions represent some	n-book" is represented usi			

c) Function symbol is known as a process symbol or a bubble in DFD

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d) All of the mentioned

6. Which of the following a) Support structured and c) Checks whether DFDs a	alysis and design (SA/S		·	e data dictionary with the available system.
7. What DFD notation is ra) Transform	epresented by the Re	ctangle? c) Function	d) (b	None of the mentioned.
8. Structural decompositi a) True		function calls. False		
9. A function-oriented de a) True	_	ntities in the system in the s	rather than the data	processing activities.
10. In DFDs, user interact a) Circle	ions with the system b) Arrow	is denoted by c) Recta	ngle	d) Triangle
	Pro	ject Mana	gement	
 Which of the following Keeping overall costs w Delivering the software Maintaining a happy ar Avoiding costumer con 	vithin budget. e to the customer at t nd well-functioning de	he agreed time.		
Project managers have a) True		at may affect a proje -alse	ct.	
Which of the following a) Specification delays		a risk in project mana act competition	ngement?	d) Staff turnover
4. The process each mana a) Project Manageme			nown as ect Management Lif	fe Cycle d) All of the mentioned
5. A 66.6% risk is consider a) very low	red as b) low	c) moderate	d) high	e) very high
6. Which of the following project?a) Travel and training cob) Hardware and softwac) All of the mentionedb) effort costs (the costs	sts re costs			the costs of a software developme
7. Quality planning is the a) team	process of developing b) project	g a quality plan for c) customers	d) pr	roject manager



8. Which of the following a) Internship manage		the configuration management c) Version ma	·		
9. Identify the sub-proc a) Process introduction	ess of process improvement on b) Process analy		n d) Process distribution		
10. An independent rela	ationship must exist betw	een the attribute that can be n	neasured and the external quality		
a) True		b) False			
	Pr	oject Planning			
		hat can affect the accuracy and			
a) Project size	b) Planning process	c) Project complexity	d) Degree of structural uncertainty		
2. What describes the d	ata and control to be pro	cessed?			
a) Planning process	b) Software scope	c) External hardware	d) Project complexity		
•	dent investigators have d the scope of a project call		roach to requirements gathering that can		
a) JAD	b) CLASS	c) FAST	d) None of the mentioned		
4. CLSS stands fora) Conveyor line sortc) Conveyor line sorti		b) Conveyor line sort	•		
5. The project planner ea) Association	examines the statement o b) Decomposition	f scope and extracts all import c) Planning process	ant software functions which is known as d) All of the mentioned		
6. The environment tha	t supports the software p	roject is called			
a) CLSS	b) SEE	c) FAST	d) CBSE		
7. Which of the following is not an option to achieve reliable cost and effort estimate? a) Base estimates on similar projects that have already been completed b) Use one or more empirical models for software cost and effort estimation c) Use relatively simple decomposition techniques to generate project cost and effort estimates. d) The ability to translate the size estimate into human effort, calendar time, and dollars.					
their own right? a) Automated estimat b) Empirical estimatio c) Decomposition tech	ion tools n models		entially valuable estimation approach in		

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9. Which of the following is not achieved by an automated estimation tools?

a) Predicting staffing levels	b) Predicting software cost	c) Predicting software schedules	d) Predicting client's demar

10. Software project estimation can never be an exact science, but a combination of good historical data and systematic techniques can improve estimation accuracy.

a) True b) False

		Software P	rocess an	d Produ	ct – 1	
1. Which o	ne of the follo	owing is not a software pr	ocess quality?			
a) Product	ivity	b) Portability	c) Tim	eliness	d) Visibility	
2	&	are two kinds	s of software prod	ucts.		
a) CAD, CA		b) Firmware, Embed		c) Generic, Cus	tomised	
3. Software	e costs more t	to maintain than it does to	o develop.			
a) Tru		b) False				
a) key pa b) patter	d control of a nrecognition	owing is not an application security system agame playing ashboard display in a car	n of embedded sof	tware product?		
5. Purpose	of process is	to deliver software				
a) in time	k	o) with acceptable quality	c) tha	at is cost efficient	d) both a & b	
area, proje	ect size, or cor how and the ment	mplexity namely the phase which fo	phase whic	_	ric phases, regardless of apples, the phase which	
a) 1, 2, 3		b) 2, 1, 3	c) 3, 2, 1		d) 3, 1, 2	
a) Commu	nication adopted for o	g activities of a Generic Pr b) Planning one project is same as the	c) Modelling & 0	Construction	d) Deployment	
•		•		ements the five p	rocess framework activities a	and help
		ol progress, quality, chang		·		'
-	ility managen e quality assu	•	ement c)	Measurement	d) User Reviews	
10. Four ty	-	e are encountered during	the support phase	. Which one of the	e following is not one that fa	lls into

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a) Translation b) Correction c) Adaptation d) Prevention

Software Process and Product - 2

1. If a software product	ion gets behind schedule, one	e can add more pro	grammers and catch up.
a) True		b) False	
2. Choose an internal so	oftware quality from given be	low:	
a) scalability	b) usability	c) reusability	d) reliability
3. RUP stands for	created by a divisior	of	
a) Rational Unified Pro	ogram, IBM		b) Rational Unified Process, Infosys
c) Rational Unified Pro	ocess, Microsoft	d) Rational Unified Process, IBM	
4. The RUP is normally (described from three perspec	tives-dynamic, stat	cic & practice. What does static perspective do?
a) It shows the process	s activities that are enacted.		
b) It suggests good pra	ctices to be used during the p	rocess.	
c) It shows the phases	of the model over time.		
5. The only deliverable	work product for a successful	project is the worl	king program.
a) True		b) False	
6. Which phase of the F	RUP is used to establish a busi	ness case for the sy	ystem?
a) Transition	b) Elaboration	c) Constructio	n d) Inception
7. Which one of the foll	owing is not a fundamental a	ctivity for software	processes in software engineering?
a) Software Verification		•	tware design and implementation
d) Software evolution	e) Software specifi	•	
8. A general statement	of objectives is the major cau	se of failed softwar	re efforts.
a) True	b) False		
9. The longer a fault exi	ists in software		
a) the more tedious	its removal becomes	b) the	more costly it is to detect and correct
c) the less likely it is	to be properly corrected	d) All	of the mentioned
10. Component-based S	Software Engineering allows f	aster delivery.	
a) True	b) False		
11. Arrange the following	ng steps to form a basic/gene	ral Engineering Pro	cess Model.
i. Test			
ii. Design			
iii. Install			
iv. Specification			
v. Manufacture			
vi. Maintain			
a) 2, 4, 5, 1, 6, 3	b) 4, 2, 5, 1, 3, 6	c) 2, 4, 5, 1, 3	3, 6 d) 4, 2, 5, 1, 6, 3

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Requirement Engineering

1. What are the type	es of requirements?			
a) Availability	b) Reliability	c) Usability	d) Flexibility	e) All of the mentioned
2. Select the develo	per specific requirement?			
a) Portability	b) Maintaina	bility	c) Availability	d) Both a and b
3. Which one of the	following is not a step of	requirement enginee	ering?	
a) Elicitation	b) Design	c) Analys	sis	d) Documentation
4. FAST stands for				
a) Functional Applic	ation Specification Techni	que b) F	ast Application Sp	ecification Technique
c) Facilitated Applic	ation Specification Techr	i que d)	None of the menti	oned
5. QFD stands for				
a) quality function d	lesign	b) quality functio	n development	
c) quality function o	_	d) none of the me	· ·	
6. A Use-case actor	is always a person having	a role that different	people may play.	
a) True		b) False		
· ·	requirements are the part		3	
a) SDD	b) SRS	c) DDD		
0				develorement.
	inyone who will purchase	·		development.
a) True) False	
	ements are common in Re	equirement Engineer	ing, with each clier	nt proposing his or her version is
right one.				
a) True		b)	False	
10. Which is one of	the most important stake	holder from the follo	wing?	
a) Entry level persor	nnel b) Middle leve	l stakeholder c)	Managers	d) Users of the software
		oftware M	latrice	
		outware M	ieti ies	
1. Which of the follo	owing is the task of projec	t indicators:		
	nt of status of ongoing pro		ntial risk c) bot	h a and b d) none of the
mentioned	5 51	, , ,	•	,
2. Which of the follo	owing does not affect the	software quality and	organizational per	formance?
a) Market	b) Product	c) Technology	d) Pe	
3. The intent of proj	ect metrics is:			
	levelopment schedule		b) F	or strategic purposes

the



c) Assessing project quality on ongoing basis			d) Both a and c		
4. Which of the following	ng is not a direct measur	re of SE process?			
a) Efficiency	b) Cost	c) Effort Applied	d) All of the mentioned		
5. Which of the following	ng is an indirect measure	e of product?			
a) Quality	b) Complexity	c) Reliability	d) All of the Mentic	ned	
6. In size oriented metra) Number of Functions usage	ics, metrics are develope b) Number of		of lines of code d) Amor	unt of memor	
4346					
7. Which of the followir a) Number of user Inpu	_	· · · · · · · · · · · · · · · · · · ·	nining function point in FPA? of external Interfaces d) N	umber of erro	
8. Usability can be mea	sured in terms of:				
a) Intellectual skill to leact c) Net increase in produ	•	b) Time required to be d) All of the mention	ecome moderately efficient in ed	system usage	
9. A graphical technique a) DRE (Defect Remova			are meaningful is known as Control Chart d) All of th	ne mentioned	
10. Defects removal eff	iciency (DRE) depends o	n:			
a) E – errors found befo			ects found after delivery to us	er	
c) Both E and D		d) Varies	with project		
	Softwa	are Maintena	nce – 1		
1. Software Maintenan	ce includes				
a) Error corrections mentioned	b) Enhancements of c	apabilities c) Deletion o	f obsolete capabilities d) Al	l of the	
2. Maintenance is classa) Twob) The	ified into how many cate nree c) I	egories? Four d) Fiv	e		
3. The modification of t software maintenance?		nanges in the ever changing	environment, falls under whi	ch category of	
a) Corrective	b) Adaptive	c) Perfective	d) Preventive		
4. How many phases ar a) Six	e there in Taute Mainte b) Seven	nance Model? c) Eight	d) Nine		
5. What type of softwar a) Regression Testing	re testing is generally us b) System Testing	ed in Software Maintenanc c) Integration			



6. Regression testing is a very	expensive activity.				
a) True	b) False				
7. Selective retest techniques	s may be more economica	al than the "retest-all" techniqu	ue. How many selective retest		
techniques are there?					
a) Two	b) Three	c) Four	d) Five		
8. Which selective retest tech	nnique selects every test o	case that causes a modified pro	ogram to produce a different output		
than its original version?					
a) Coverage	b) Minimiz	ration c) Sa	afe		
9 measure	s the ability of a regressio	on test selection technique to h	andle realistic applications.		
a) Efficiency	b) Precision	c) Generality	d) Inclusiveness		
10. Which regression test sel	ection technique exposes	faults caused by modifications	5?		
a) Efficiency	b) Precision	c) Generality	d) Inclusiveness		
	Software	Maintenance –	2		
1. The process of generating	analysis and design docur	ments is known as			
a) Software engineering	b) Software re-engineerir	ng c) Reverse engineer	ing d) Re-engineering		
2. What is a software patch?					
a) Required or Critical Fix	b) Emergency Fix	c) Daily or routine Fix	d) None of the mentioned		
3. Which one of the following	g is not a maintenance mo	odel?			
a) Waterfall model	b) Reuse-oriented mod	el c) Iterative enhanceme	ent model d) Quick fix model		
4. What does ACT stands for	in In Boehm model for so	ftware maintenance?			
a) Actual change track	b) Annual change track	c) Annual change traffic	d) Actual change traffic		
5. Choose the suitable option	s with respect to regressi	ion testing.			
a) It helps in development of	software	b) It helps in maintenance of	f software		
c) both a and b		d) none of the mentioned			
6. What are legacy systems?					
a) new systems	b) old systems	c) under-developed system	ns d) none of the mentioned		
7. Which of the following ma	nuals is not a user docum	entation?			
a) Beginner's Guide	b) Installation guide	c) Reference Guide	d) SRS		
8. Which of the following ma	nuals is a user documenta	ation?			
a) SRS -Software Requiremen		DD -Software Design Document	c) System Overview		
9. The process of transformin	ng a model into source co	de is known as			
a) Forward engineering	b) Reverse enginee		d) Reconstructing		





10. How many stages are there in Iterative-enhancement model used during software maintenance? a) Two b) Three c) Four d) Five **Software Configuration Management - 1** 1. Which of the following categories is part of the output of software process? a) computer programs b) documents that describe the computer programs c) data d) All of the mentioned 2. Which is a software configuration management concept that helps us to control change without seriously impeding justifiable change? a) Baselines b) Source code c) Data model d) None of the mentioned 3. Software Configuration Management can be administered in several ways. These include a) A single software configuration management team for the whole organization b) A separate configuration management team for each project c) Software Configuration Management distributed among the project members d) All of the mentioned 4. What combines procedures and tools to manage different versions of configuration objects that are created during the software process? a) Change control b) Version control c) SCIs d) None of the mentioned 5. What complements the formal technical review by assessing a configuration object for characteristics that are generally not considered during review? a) Software configuration audit b) Software configuration management c) Baseline d) None of the mentioned 6. Which of the following is the process of assembling program components, data, and libraries, and then compiling and linking these to create an executable system? a) System building b) Release management c) Change management d) Version management 7. Which of the following option is not tracked by configuration management tools? a) Tracking of change proposals b) Storing versions of system components c) Tracking the releases of system versions to customers d) None of the mentioned 8. Which of the following is not a Software Configuration Management Activity? a) Configuration item identification b) Risk management c) Release management d) Branch management 9. The definition and use of configuration management standards is essential for quality certification in a) ISO 9000 b) CMM c) CMMI d) All of the mentioned 10. What involves preparing software for external release and keeping track of the system versions that have been released for customer use? a) System building b) Release management c) Change management d) Version management

PG DAC Question Bank



Software Configuration Management - 2

1. Which of the follow	ving process ensures that	versions of syste	ems and compor	nents are recorded	I and maintained?
a) Code line	b) Configuration	control	c) Version	d) Worksp	pace
2. Which of the follow	ving process is concerned	with analysing t	he costs and ber	nefits of proposed	changes?
a) Change manageme	ent b) Version mar	nagement	c) System bui	ilding d) Relea	ase management
3. Which of the follow	ving is not a Version mana	ngement feature	?		
a) Version and release	e identification b) Bui l	ld script generat	t ion c) Project	support d) Cha	ange history recording
4. Which method reco	ommends that very frequ	ent system build	ls should be carri	ied out with auton	nated testing to discover
a) Agile method	b) Parallel compilation	method o	c) Large systems	method d)	All of the mentioned
5. Which of the follow	ving is not a build system	feature?			
a) Minimal recompila	tion b) Documentat	ion generation	c) Storage	management	d) Reporting
C Militale a Cultar Callia	to to a sellente e force		that and a second		
	ving is a collection of com b) Code line	ponent versions c) Bas	•	system? d) None of the	a abaya
a) Version	b) code line	C) DdS	eine	d) None of the	e above
7. Which of the follow	ving is a configuration iter	n?			
a) Design specificatio			pecification	d) Log inform	ation
e) All of the mention	ed				
O Militale a Callea Callea		12			
	ving is a part of system re				
	er documentation describ ociated publicity that have		for that rologo		
	gram that is used to help in	_		ware	
d) all of the mention		instantine system	Ton target narav	ware	
9. A sequence of base	elines representing differe	nt versions of a	svstem is known	ı as	
a) System building	b) Mainline		nfiguration Item(None of the above
10. Which of the followsisting code line"?	owing term is best defined	by the stateme	nt "The creation	of a new code line	e from a version in an
a) Branching	b) Merging	c) Co	de line	d) Mainline	
-				•	
	Ri	sk Mana	agement		
1. Risk management i	s one of the most importa	ant jobs for a			
a) Client	b) Investor	-	uction team	d) Project m	nanager
2. Which of the follow	ving risk is the failure of a	purchased comp	ponent to perfor	m as expected?	
a) Product risk	b) Project risk	c) Bus	siness risk	d) Progra	amming risk



3. Which of the following to with different priorities."?	erm is best defined by the st	atement: "There will be a chang	ge of organizational management		
a) Staff turnover	b) Technology change	c) Management change	d) Product competition		
4. Which of the following to is superseded by new techn	·	atement: "The underlying techr	nology on which the system is built		
a) Technology change	b) Product competition	c) Requirements change	d) None of the mentioned		
5. What assess the risk and a) Risk monitoring	your plans for risk mitigatio b) Risk planning	n and revise these when you lea c) Risk analysis	arn more about the risk? d) Risk identification		
6. Which of the following ri a) People risks	sks are derived from the org b) Technology risks	ranizational environment where c) Estimation risks	the software is being developed? d) Organizational risks		
7. Which of the following ri system?	sks are derived from the sof	tware or hardware technologies	s that are used to develop the		
a) Managerial risks	b) Technology risks	c) Estimation risks	d) Organizational risks		
hiding in the design."? a) Underestimated develope above 9. Which of the following state a) Avoidance strategies	oment time b) Organization b) trategies means that the imp	onal restructuring c) Requirement of the risk will be reduced? es c) Contingency plans	d) All of the above		
10. Risk management is now recognized as one of the most important project management tasks.a) Trueb) False					
	User Int	erface Design			
	golden rule for interface de b) Reduce the user's mem		e consistent d) All of the		
 2. Which of the following is not a design principle that allow the user to maintain control? a) Provide for flexible interaction b) Allow user interaction to be interrupt-able and undo-able c) Show technical internals from the casual user d) Design for direct interaction with objects that appear on the screen 					
_	not a user interface design ent analysis and modelling	•	c) Knowledgeable, frequent users		
4. When users are involved a) short-term memory		nd on can be signif jects that appear on the screen			



- 5. Which of the following option is not considered by the Interface design?
- a) the design of interfaces between software components
- b) the design of interfaces between the software and human producers and consumers of information
- c) the design of the interface between two computers
- d) all of the mentioned
- 6. A software might allow a user to interact via
- a) keyboard commands
- b) mouse movement
- c) voice recognition commands
- d) all of the mentioned
- 7. A software engineer designs the user interface by applying an iterative process that draws on predefined design principles.
 - a) True

- b) False
- 8. What incorporates data, architectural, interface, and procedural representations of the software?
- a) Design model
- b) user's model
- c) mental image
- d) system image

- 9. What establishes the profile of end-users of the system?
- a) Design model
- b) user's model
- c) mental image
- d) system image
- 10. What combines the outward manifestation of the computer-based system, coupled with all supporting information that describe system syntax and semantics?
- a) Mental image
- b) interface design
- c) system image
- d) interface validation.