Name:	UPES
Enrolment No:	OPES
UNIVERSITY OF PETROLEUM AND I End Semester Examination,	
Course: Software Engineering and Project Management	Semester: IV
Course Code: CSEG2008 Programme: B.Tech-CSE-IFM	Time:2-4 PM Max. Marks:100
Instructions:	max marror

My Institution

Courses

Community

Edit Mode is:

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Tests, Surveys and Pools Tests Test Canvas: SEPM END SEM JULY 2020

Х This Test has 18 attempts. For information on editing questions, click More Help below. Test Canvas: SEPM END SEM JULY 2020 The Test Canvas lets you add, edit and reorder questions, as well as review a test. More Help **Question Settings** You can edit, delete or change the point values of test questions on this page. If necessary, test attempts will be regraded after you submit your changes. Description Instructions **Total Questions** 60 **Total Points** 60 Number of Attempts 18 Select: All None | Select by Type: - Question Type - 👡 Points Update and Regrade **Hide Question Details** Delete and Regrade Points: 1. Multiple Choice: A company needs to develop digital si... Question A company needs to develop digital signal processing software for one of its newest inventions. The software is expected to have 40000 lines of code. The company needs to determine the effort in person-months needed to develop this software using the basic COCOMO model. The multiplicative factor for this model is given as 2.8 for the software development on embedded systems, while the exponentiation factor is given as 1.20. What is the estimated effort in person-months? Answer 234.25 932.25 287.5 112.4

Points:

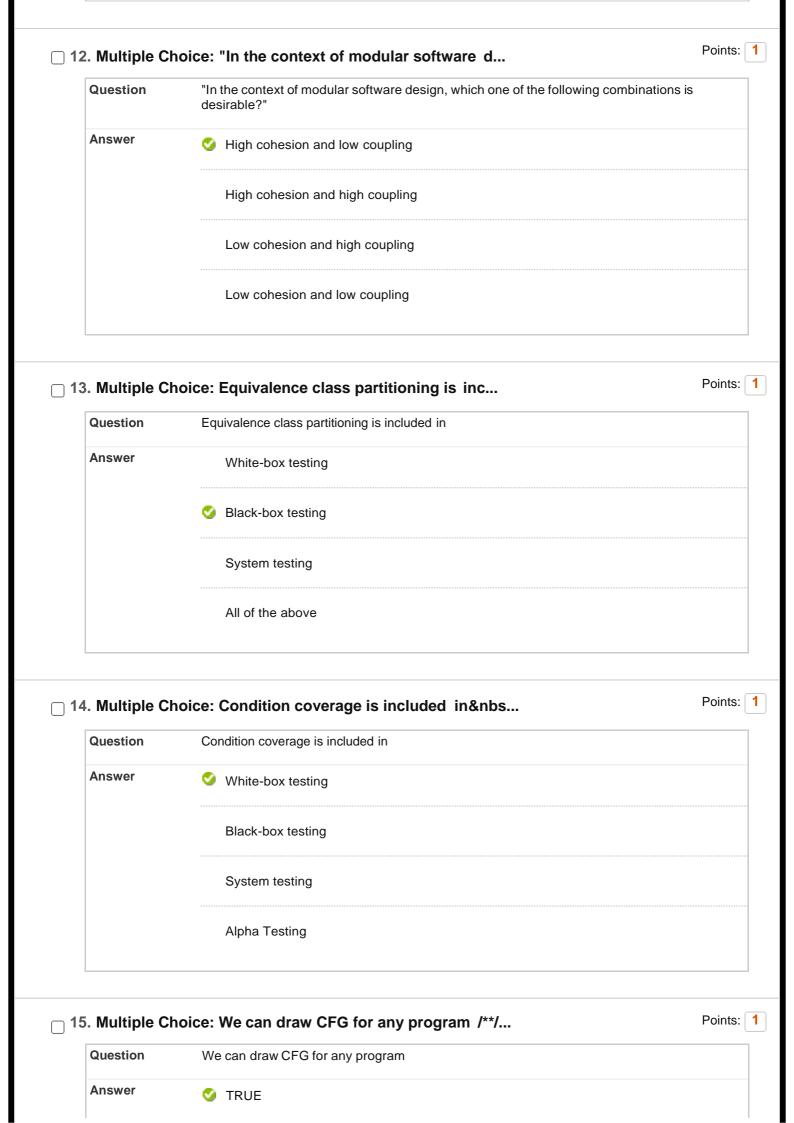
2. Multiple Choice: External entities should be identifie...

Question Control information should not be represented in a DFD. Answer TRUE FALSE Multiple Choice: The context diagram should depict the Question The context diagram should depict the system as a single bubble. Answer TRUE FALSE Multiple Choice: The cyclomatic complexity of a module Poir Question The cyclomatic complexity of a module is equal to the maximum number of linearly independent circuits in the graph. Answer TRUE FALSE		External entities should be identified clearly at all levels of DFDs.	
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FALSE Multiple Choice: The cyclomatic complexity of a module Poir Question The cyclomatic complexity of a module is equal to the maximum number of linearly independent circuits in the graph. Answer TRUE FALSE Multiple Choice: The cyclomatic complexity can also be Poir Question The cyclomatic complexity can also be used as a number of linearly independent paths that should be tested during path coverage testing. Answer TRUE	Question	The context diagram should depict the system as a single bubble.	
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should be tested during path coverage testing. Answer	Question	oice: The cyclomatic complexity of a module The cyclomatic complexity of a module is equal to the maximum number of linearly independent circuits in the graph. TRUE	Poin
TRUE	Question Answer Multiple Cho	oice: The cyclomatic complexity of a module The cyclomatic complexity of a module is equal to the maximum number of linearly independent circuits in the graph. TRUE FALSE oice: The cyclomatic complexity can also be	Poir
FALSE	Question Answer Multiple Che	oice: The cyclomatic complexity of a module The cyclomatic complexity of a module is equal to the maximum number of linearly independent circuits in the graph. TRUE FALSE oice: The cyclomatic complexity can also be The cyclomatic complexity can also be used as a number of linearly independent pa should be tested during path coverage testing.	Poir
	Question Answer Multiple Che	oice: The cyclomatic complexity of a module The cyclomatic complexity of a module is equal to the maximum number of linearly independent circuits in the graph. TRUE FALSE oice: The cyclomatic complexity can also be The cyclomatic complexity can also be used as a number of linearly independent pa should be tested during path coverage testing.	Poir

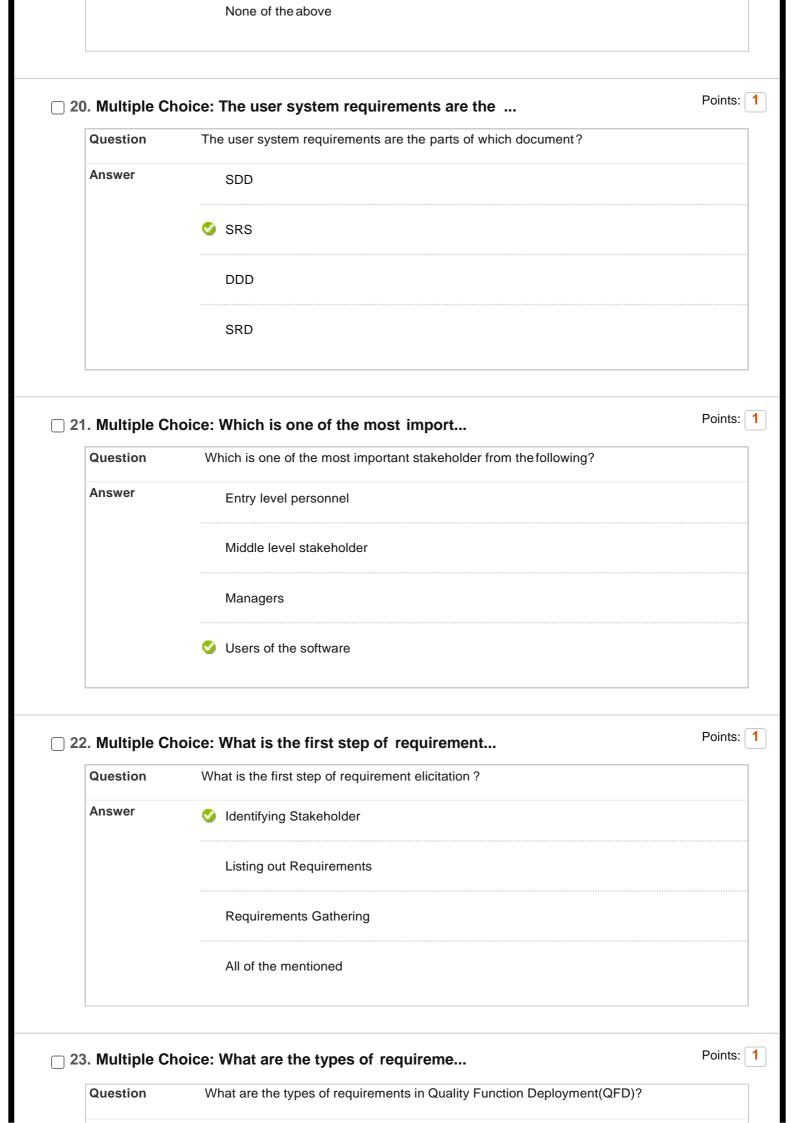
Answer	Spiral Model	
	Prototype Model	
	✓ Waterfall Model	
	RAID Model	
. Multiple Cho	pice: The prototyping model is a method of	Points: 1
Question	The prototyping model is a method of requirements validation.	
Answer	▼ TRUE	
	FALSE	
Multiple Cho	Dice: The requirements document also descri The requirements document also describes how the requirements that are listed in	Points: 1
	document are implemented efficiently.	
Answer	TRUE	
	S FALSE	
. Multiple Ch	noice: Consistency and completeness of funct	Points: 1
Question	Consistency and completeness of functional requirements are always achieved in	n practice.
Answer	TRUE	
	✓ FALSE	
. Multiple Ch	noice: Requirements review is carried out to	Points: 1
Question	Requirements review is carried out to find the errors in system design	
Answer	TRUE	
	S FALSE	

Inflexible partitioning of the project into stages

Question



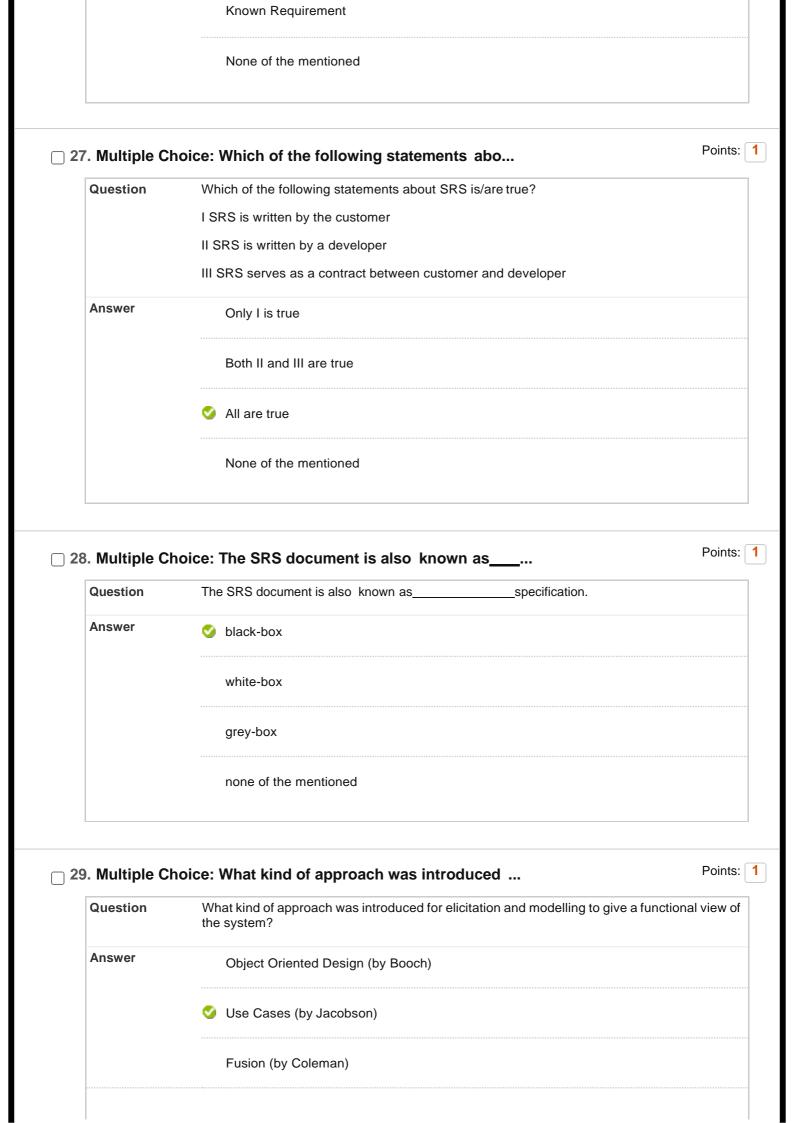




	"Functional, Non-Functional"	
	✓ " Normal, Expected, Exciting"	
. Multiple C	hoice: Which of the following property does	Poi
Question	Which of the following property does not correspond to a good Software Requirement Specification (SRS)?	ts
Answer	Verifiable	
	✓ Ambiguous	
	Complete	
	Traceable	
	hoice: Which of the following property of SR Which of the following property of SRS is depicted by the statement: Conformity to a second statement of the following property of SRS is depicted by the statement: Conformity to a second statement of the following property of SRS is depicted by the statement: Conformity to a second statement of the following property of the second statement of the second s	
. Multiple C	hoice: Which of the following property of SR Which of the following property of SRS is depicted by the statement: Conformity to a sis maintained?	
	Which of the following property of SRS is depicted by the statement: Conformity to a	
Question	Which of the following property of SRS is depicted by the statement: Conformity to a sis maintained?	
Question	Which of the following property of SRS is depicted by the statement: Conformity to a sis maintained? Correct	
Question	Which of the following property of SRS is depicted by the statement: Conformity to a sis maintained? Correct Complete	Poi
Question	Which of the following property of SRS is depicted by the statement: Conformity to a sis maintained? Correct Complete Consistent Modifiable	stand
Question	Which of the following property of SRS is depicted by the statement: Conformity to a sis maintained? Correct Complete Consistent	stand
Question Answer . Multiple C	Which of the following property of SRS is depicted by the statement: Conformity to a sis maintained? Correct Complete Consistent Modifiable hoice: " Consider a system where a heat sens " Consider a system where a heat sensor detects an intrusion and alerts the security	

"Known, Unknown, Undreamed"

Answer



D. Multiple C	hoice: Why is Requirements Elicitation a dif	Poir
Question	Why is Requirements Elicitation a difficult task?	
Answer	Problem of scope	
	Problem of understanding	
	Problem of volatility	
	All of the mentioned	
. Multiple C	hoice: In dataflow diagram process is repres	Poir
Question	In dataflow diagram process is represented by a	
Answer		
	rectangle	
	triangle	
	parallelogram	
2. Multiple C	hoice: A Data Flow Diagram (DFD) is composed	Poii
Question	A Data Flow Diagram (DFD) is composed of which elements?	
Answer	Data sources and destinations	
	Data flows	
	Transformation processes	
	All of the above	

Question

Object Modeling Technique (by Rumbaugh)

	Many documentation tools are available to explain how a system works. Which tool provides a graphical description of the sources and destinations of data as well as data flow within the organization and the processes that transform and store that data?
Answer	Data flow diagram
	Document flowchart
	✓ Program flowchart
	System flowchart

Points: 1

Question	Which of the following is not a guideline for drawing a Data Flow Diagram (DFD)?
Answer	Develop a context diagram
	Subdivide the DFD
	Determine system boundaries
	Display the physical location of data files

$\hfill \square$ 35. Multiple Choice: "A project has cashflows of -100000...

Points: 1

Question	"A project has cashflows of -100000, 10000, 10000, 10000, 20000, 100000 (all in dollars) for year 0, 1, 2, 3, 4 and 5 respectively. The Payback period is estimated asyears"
Answer	3.5
	4.25
	4.8
	⊘ 4.5

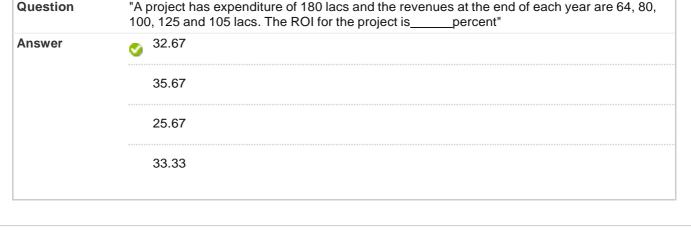
☐ 36. Multiple Choice: "A project has cashflows of -100000...

Points: 1

Question	"A project has cashflows of -100000, 10000, 10000, 10000, 20000, 100000 (all in dollars) for year 0, 1, 2, 3, 4 and 5 respectively. The ROI for the project ispercent"
Answer	9.5
	⊘ 10
	10.5
	11.5

Answer Ouestion The average staff size for a 200 KLOC project using COCOMO Model isperson 38.63 35.33 30.88 B. Multiple Choice: The effort for a project of size 500 Question The effort for a project of size 500 KLOC using COCOMO Model isPM Answer 6328 6350 6268 Cocomology 6238 B. Multiple Choice: "A program has 5 Els of simple type,			
36.63 35.33 30.88 3. Multiple Choice: The effort for a project of size 500 Question The effort for a project of size 500 KLOC using COCOMO Model isPM Answer 6328 6350 6268 © 6238	Question	The average staff size for a 200 KLOC project using COCOMO Model ispersons	
35.33 30.88 3. Multiple Choice: The effort for a project of size 500 Question The effort for a project of size 500 KLOC using COCOMO Model isPM Answer 6328 6350 6268 © 6238	Answer		
30.88 S. Multiple Choice: The effort for a project of size 500 Question The effort for a project of size 500 KLOC using COCOMO Model isPM Answer 6328 6350 6268		36.63	
B. Multiple Choice: The effort for a project of size 500 Question The effort for a project of size 500 KLOC using COCOMO Model isPM Answer 6328 6350 6268		35.33	
Question The effort for a project of size 500 KLOC using COCOMO Model isPM 6328 6350 6268 € 6238		30.88	
Answer 6328 6350 6268	3. Multiple Cl	hoice: The effort for a project of size 500	Poi
6350 6268 ⊙ 6238	Question	The effort for a project of size 500 KLOC using COCOMO Model isPM	
6268 ⊘ 6238	Answer	6328	
6238		6350	
		6268	
. Multiple Choice: "A program has 5 Els of simple type,		⊘ 6238	
average type and 4 EIFs of complex type. The complexity adjustment factors are to			
Answer 128		"A program has 5 EIs of simple type, 4 EOs of average type, 4 EQs of complex type, 3 average type and 4 EIFs of complex type. The complexity adjustment factors are to be	3 ILF
131	Question	"A program has 5 EIs of simple type, 4 EOs of average type, 4 EQs of complex type, 3 average type and 4 EIFs of complex type. The complexity adjustment factors are to be as average. The FP for this program is"	
⊘ 138	Question	"A program has 5 EIs of simple type, 4 EOs of average type, 4 EQs of complex type, 3 average type and 4 EIFs of complex type. The complexity adjustment factors are to be as average. The FP for this program is" 128	3 ILF
	Question	"A program has 5 Els of simple type, 4 EOs of average type, 4 EQs of complex type, 3 average type and 4 EIFs of complex type. The complexity adjustment factors are to be as average. The FP for this program is" 128 131	3 ILF
	Question	"A program has 5 Els of simple type, 4 EOs of average type, 4 EQs of complex type, 3 average type and 4 EIFs of complex type. The complexity adjustment factors are to be as average. The FP for this program is" 128 131	3 IL
145	Question	"A program has 5 Els of simple type, 4 EOs of average type, 4 EQs of complex type, 3 average type and 4 EIFs of complex type. The complexity adjustment factors are to be as average. The FP for this program is" 128 131	3 ILF
145	Question	"A program has 5 Els of simple type, 4 EOs of average type, 4 EQs of complex type, 3 average type and 4 EIFs of complex type. The complexity adjustment factors are to be as average. The FP for this program is" 128 131	3 ILF
). Multiple Choice: "A program has 5 Els of simple type,	Question	"A program has 5 Els of simple type, 4 EOs of average type, 4 EQs of complex type, 3 average type and 4 EIFs of complex type. The complexity adjustment factors are to be as average. The FP for this program is" 128 131 138	3 ILF
D. Multiple Choice: "A program has 5 Els of simple type, Question "A program has 5 Els of simple type, 4 EQs of complex type	Question Answer . Multiple Cl	"A program has 5 Els of simple type, 4 EOs of average type, 4 EQs of complex type, 3 average type and 4 EIFs of complex type. The complexity adjustment factors are to be as average. The FP for this program is" 128 131 135 145 hoice: "A program has 5 Els of simple type, 4 EOs of average type, 4 EQs of complex type, 3 average type and 4 EIFs of complex type. The complexity adjustment factors are to be	Poi
D. Multiple Choice: "A program has 5 Els of simple type, Question "A program has 5 Els of simple type, 4 EOs of average type, 4 EQs of complex type average type and 4 EIFs of complex type. The complexity adjustment factors are to	Question Answer Multiple Cl	"A program has 5 Els of simple type, 4 EOs of average type, 4 EQs of complex type, 3 average type and 4 EIFs of complex type. The complexity adjustment factors are to be as average. The FP for this program is" 128 131 135 145 hoice: "A program has 5 Els of simple type, "A program has 5 Els of simple type, 4 EOs of average type, 4 EQs of complex type, 3 average type and 4 EIFs of complex type. The complexity adjustment factors are to be as average. The UFP for this program is"	Poi

. Multiple Cl	hoice: "A system has 15 user inputs (Average	Poi
Question	"A system has 15 user inputs (Average), 10 user outputs (High), 5 user inquiries (Higinternal logical files (Low) and 4 external interface (High). The UFP Count is	h), 8
Answer	236	
	248	
	244	
	⊘ 256	
. Multiple Cl	hoice: "Assume that the size of an organic t	Po
Question	"Assume that the size of an organic type software product has been estimated to b lines of source code. Assume that the average salary of software engineers be Rs. per month. Determine the effort required to develop the software product and the n development time. From the basic COCOMO estimation formula for organic software: basic COCOMO estimation formula for organic software: Nominal Development Times.	15,00 omina From
Answer	14 months	
	12 months	
	15 months	
	19 months	
. Multiple Cl	hoice: "A company wants to start a Project a	Po
	"A company wants to start a Project and to calculate its feasibility, There is another m which states that there is some models which are often based on equation (i), they are depend on several variables representing various aspects of the software development of the software development, for example method used, user participation, customer oriented chan memory constraints, etc. Company deduced that the project they are using is of size	ctually nent ges,
Question	KLOC, Based on the data given what will be the duration of the project"	
Question	67.1234	
	· · · · · · · · · · · · · · · · · · ·	
	67.1234	



☐ 45. Multiple Choice: "A project has expenditure of 180 lac...

Points: 1

1 0111101

Question	"A project has expenditure of 180 lacs and the revenues at the end of each year are 64, 80, 100, 125 and 105 lacs. The NPV assuming 12.5 percent discount rate islacs"
Answer	141.89
	143.37
	√ 146.63
	151.89

☐ 46. Multiple Choice: The value of a and b in E=a(KLOC)^b f...

Points: 1



Question	The value of a and b in E=a(KLOC)^b for basic COCOMO (Organic) having 2-50 KLOC is
Answer	
	"a=3.0,b=1.12"
	"a=2.4,b=112"
	"a=3.0,b=1.05"

$_$ 47. Multiple Choice: The value of a and b in E=a(KLOC)^b f...

Points: 1

1

Question	The value of a and b in E=a(KLOC)^b for basic COCOMO (Embedded) having 400 KLOC is
Answer	"a=2.4,b=1.05"
	"a=3.0,b=1.12"
	"a=2.4,b=1.12"

Answer G26 PM		hoice: A project having 200 KLOC will requir A project having 200 KLOC will require Effortusing basic COCOMO	
1133 PM 2077 PM none of given D. Multiple Choice: A project having 200 KLOC will requir Poir Question A project having 200 KLOC will require Duration of using basic COCOMO Answer 29 months 28 months 26 months 24months O. Multiple Choice: Which model is popular for developmen Poir Question Which model is popular for development of the user interface part of projects? Answer Classical Waterfall Model Prototyping Model RAD Model Spiral Model Spiral Model	Question		
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Answer 29 months 28 months 26 months 24months Nulltiple Choice: Which model is popular for developmen Poir Question Which model is popular for development of the user interface part of projects? Answer Classical Waterfall Model Prototyping Model RAD Model Spiral Model Spiral Model Choice: The most complex model is /**/ docu). Multiple Cl	hoice: A project having 200 KLOC will requir	Poin
28 months 26 months 24months 24months D. Multiple Choice: Which model is popular for developmen Poir Question Which model is popular for development of the user interface part of projects? Answer Classical Waterfall Model Prototyping Model RAD Model Spiral Model Spiral Model Spiral Model	Question	A project having 200 KLOC will require Duration ofusing basic COCOMO	
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24months D. Multiple Choice: Which model is popular for developmen Question Which model is popular for development of the user interface part of projects? Answer Classical Waterfall Model Prototyping Model RAD Model Spiral Model Spiral Model Development of the user interface part of projects? Prototyping Model RAD Model Prototyping Model Poir		28 months	
D. Multiple Choice: Which model is popular for developmen Question Which model is popular for development of the user interface part of projects? Answer Classical Waterfall Model Prototyping Model RAD Model Spiral Model Spiral Model		26 months	
Question Which model is popular for development of the user interface part of projects? Answer Classical Waterfall Model Prototyping Model RAD Model Spiral Model Spiral Model Multiple Choice: The most complex model is /**/ docu Poin		24months	
Answer Classical Waterfall Model Prototyping Model RAD Model Spiral Model Spiral Model Multiple Choice: The most complex model is /**/ docu Poir). Multiple Cl	hoice: Which model is popular for developmen	Poin
Prototyping Model RAD Model Spiral Model Spiral Model Multiple Choice: The most complex model is /**/ docu Poir	Question	Which model is popular for development of the user interface part of projects?	
RAD Model Spiral Model Multiple Choice: The most complex model is /**/ docu Poir		Classical Waterfall Model	
Spiral Model . Multiple Choice: The most complex model is /**/ docu Poir	Answer	✓ Prototyping Model	
. Multiple Choice: The most complex model is /**/ docu	Answer		
ри оптина	Answer	RAD Model	
Question The most complex model is	Answer		
		Spiral Model	Poir

2. Multiple Cl	hoice:is a measure of the degree of	Poi
Question	is a measure of the degree of interdependence between modules.	
Answer	Cohesion	
	Both of the above	
	None of the above	
Answer	Functional Cohesion	
	Sequential Cohesion	
	Sequential Cohesion Very Temporal Cohesion	
l. Multiple Cl	✓ Temporal Cohesion	Poi
l. Multiple Ch	Temporal Cohesion Control Cohesion	Poi
	Temporal Cohesion Control Cohesion noice: McCall's Quality Factors	Poi

Prototyping Model

Question Context Diagram is Answer		Capability Maturity Model includes	
6 levels 3 levels Multiple Choice: Context Diagram is /**/ document.on Question Context Diagram is Answer Level 0 DFD Level 1 DFD Level 2 DFD Level 3 Multiple Choice: If two module communicate using a com Question If two module communicate using a composite data item then it is called Answer Data coupling Communication coupling Common coupling	Answer	4 levels	
Multiple Choice: Context Diagram is /**/ document.on Question Context Diagram is Answer Level 0 DFD Level 1 DFD Level 2 DFD Level 3 Multiple Choice: If two module communicate using a com Question If two module communicate using a composite data item then it is called Answer Data coupling Communication coupling Common coupling		✓ 5 levels	
Multiple Choice: Context Diagram is /**/ document.on Question Context Diagram is Answer Level 0 DFD Level 1 DFD Level 2 DFD Level 3 Multiple Choice: If two module communicate using a com Question If two module communicate using a composite data item then it is called Answer Data coupling Communication coupling Common coupling		6 levels	
Question Context Diagram is Answer Level 0 DFD Level 1 DFD Level 2 DFD Level 3 7. Multiple Choice: If two module communicate using a com Question If two module communicate using a composite data item then it is called Answer Data coupling Communication coupling Common coupling		3 levels	
Answer Level 1 DFD Level 2 DFD Level 3 Multiple Choice: If two module communicate using a com Question If two module communicate using a composite data item then it is called Answer Data coupling Communication coupling Common coupling	. Multiple Cl	hoice: Context Diagram is /**/ document.on	Po
Level 1 DFD Level 2 DFD Level 3 Multiple Choice: If two module communicate using a com Question If two module communicate using a composite data item then it is called Answer Data coupling Communication coupling Common coupling	Question	Context Diagram is	
Level 2 DFD Level 3 Multiple Choice: If two module communicate using a com Question	Answer	✓ Level 0 DFD	
Level 3 Multiple Choice: If two module communicate using a com Question If two module communicate using a composite data item then it is called Answer Data coupling Communication coupling Common coupling		Level 1 DFD	
Multiple Choice: If two module communicate using a com Question If two module communicate using a composite data item then it is called Answer Data coupling Communication coupling Common coupling		Level 2 DFD	
Question If two module communicate using a composite data item then it is called Answer Data coupling Communication coupling Common coupling		Level 3	
Answer Data coupling Communication coupling Common coupling			
Communication coupling Common coupling	. Multiple Cl	noice: If two module communicate using a com	Po
Common coupling			Ро
	Question	If two module communicate using a composite data item then it is called	Po
Stamp coupling	Question	If two module communicate using a composite data item then it is called Data coupling	Ро
	Question	If two module communicate using a composite data item then it is called Data coupling Communication coupling	Po
3. Multiple Answer: The following	Question	If two module communicate using a composite data item then it is called Data coupling Communication coupling Common coupling	Po

The following program is to be tested for statement coverage: if $(a== b) \{S1; exit;\}$ else if (c== d) {S2;} else {S3; exit;} end The test cases T1, T2, T3 and T4 given below are expressed in terms of the properties satisfied by the values of variables a, b, c and d. The exact values are not given. T1: a, b, c and d are all equal; T2: a, b, c and d are all distinct; T3: a = b and c!= d; T4: a!= b and c = d. Which of the test suites given below ensures coverage of statements S1, S2, S3 and S4? **Answer** T1, T2, T3 T2, T4 T3, T4 T1, T2, T4

☐ 59. Multiple Answer: The coupling b...

Points: 1

Question The coupling between different modules of a software is categorized as follows: I. Content coupling II. Common coupling III. Control coupling IV. Stamp coupling V. Data coupling Coupling between modules can be ranked in the order of strongest (least desirable) to weakest (most desirable) as follows: **Answer** I-II-III-IV-V I-III-IV-V-II V-IV-III-II-I V-III-II-I-IV

```
while (first <= last)
{
    if (array [middle] < search)
        first = middle +1;
    else if (array [middle] == search)
        found = True;
    else last = middle - 1;
        middle = (first + last)/2;
}
The cyclomatic complexity of the program segment is

Answer

3

4

5
```

Select: All None Select by Type: - Question Type - ✓

Delete and Regrade Points Update and Regrade Hide Question Details

← ok