


Name: Enrolment No:	 UPES UNIVERSITY WITH A PURPOSE
UNIVERSITY OF PETROLEUM AND ENERGY STUDIES End term Examination, July 2020	
Course: Software Engineering and Project Management Program: B.Tech CCVT Course Code: CSEG2008	Semester: IV Time: 02 hrs. Max. Marks: 100
Instructions: Use of calculators and other electronic devices is prohibited	

This Test has 115 attempts. For information on editing questions, click **More Help** below. ✕

Test Canvas: SEPM_ENDSEM_EXAM

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	Endsemester Exam is for 2 hrs and 60 questions are there.
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Instructions	Exam Date: 8/July/2020
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	Time: 2:00 pm -4:00pm
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	60 questions
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Total Questions	60
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Total Points	100
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Number of Attempts	115
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Select: All None Select by Type:

Points

1. Multiple Choice: The radial dimension of spiral represents

Points: 1

Question	The radial dimension of spiral represents
Answer	<input type="checkbox"/> Cumulative costs
	<input checked="" type="checkbox"/> Cumulative benefits
<input type="checkbox"/>	<input type="checkbox"/> Both a and b
	<input type="checkbox"/> none of these

Points: 1

2. Multiple Choice: The difficulties that need to be resolved

Question	The difficulties that need to be resolved with Spiral model include
Answer	<input type="checkbox"/> Lack of explicit process guidance in determining objectives
	<input type="checkbox"/> relying on risk assessment expertise
<input type="checkbox"/>	<input type="checkbox"/> providing more flexibility than required for many applications
	<input checked="" type="checkbox"/> All of these

Points: 1

3. Multiple Choice: MC: The angular dimension of spiral represents

Question	The angular dimension of spiral represents
Answer	<input type="checkbox"/> Cumulative costs
	<input checked="" type="checkbox"/> Progress made in each completing cycle

cumulative benefits

both a and c



Points: 1

5. Multiple Choice: Phase of prototype model which focuse..

Question	Phase of prototype model which focuses on a representation of those aspects of software that will visible to end user is
Answer	<p>construction of prototype</p> <p><input checked="" type="checkbox"/> quick design</p> <p>deployment</p> <p>communication</p>



Points: 1

6. Multiple Choice: MC: FP-based estimation techniques requir...

Question	FP-based estimation techniques require problem decomposition based on
Answer	<p>information domain values</p> <p>Project Schedule</p> <p><input checked="" type="checkbox"/> Software functions</p> <p>process activities</p>



Points: 1

7. Multiple Choice: "Consider a system where, a heat sens...

Question	"Consider a system where, a heat sensor detects an intrusion and alerts the security company. What kind of a requirement the system is providing"
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Answer

Functional

Non-Functional

Known Requirement

None of the mentioned

 8. Multiple Choice: QFD stands forPoints: **1****Question**

QFD stands for

Answer

quality function design

quality function development



quality function deployment

none of the mentioned

**9. Multiple Choice: RAD Software process model stands for...**Points: **1****Question**

RAD Software process model stands for _____

Answer

Rapid Application Development

Relative Application Development

Rapid Application Design

Recent Application Development

 10. Multiple Choice: COCOMO stands for _____Points: **1****Question**

COCOMO stands for _____

Answer

COsumed COst Model



COnstructive COst Model

COmmon COntrol Model

COmposition COst Model

**11. Multiple Choice: Which depicts flow of data in program...**Points: **1**

Question	Which depicts flow of data in program modules?
Answer	<input checked="" type="checkbox"/> DFD
	<input type="checkbox"/> Use Case
	<input type="checkbox"/> Flw Chart
	<input type="checkbox"/> None of these

**12. Multiple Choice: Which is not a characteristic of a go...**Points: **1**

Question	Which is not a characteristic of a good SRS?
Answer	<input type="checkbox"/> Detail
	<input type="checkbox"/> Complete
	<input checked="" type="checkbox"/> Brief
	<input type="checkbox"/> Consistent

**13. Multiple Choice: Software testing includes**Points: **1**

Question	Software testing includes
Answer	<input type="checkbox"/> test case writing
	<input type="checkbox"/> execution of the software
	<input type="checkbox"/> reporting
	<input checked="" type="checkbox"/> All of these

**14. Multiple Choice: A tester needs**Points: **1**

Question	A tester needs
Answer	good programming skills
	<input checked="" type="checkbox"/> good analytical skills
	good SRS writing skills
	good designing skills

 15. Multiple Choice: Software testing

Points: 1

Question	Software testing
Answer	removes all errors of software
	finds all errors in software
	removes some error of software
	<input checked="" type="checkbox"/> discover some errors in software

 16. Multiple Choice: Software testing is necessary because

Points: 1

Question	Software testing is necessary because
Answer	developers do their work carelessly
	designers work carelessly
	it is a mark of the reputation of the company
	<input checked="" type="checkbox"/> software contains errors due to unavoidable reasons

 17. Multiple Choice: Which of these statements about softw...

Points: 1

Question	Which of these statements about software testing is true
Answer	it necessarily is a manual exercise

it necessarily is an automotive exercise

it necessarily is a combination of both

It depends on the type of software application

18. Multiple Choice: Black box testing takes inputs from

Points: 1

Question	Black box testing takes inputs from
Answer	<p>SDD</p> <p><input checked="" type="checkbox"/> SRS</p> <p>Flowcharts</p> <p>All of the above</p>

19. Multiple Choice: White box testing takes inputs from

Points: 1

Question	White box testing takes inputs from
Answer	<p>design</p> <p>program code</p> <p><input checked="" type="checkbox"/> SDD and program code</p> <p>SRS and SDD</p>

20. Multiple Choice: A _____ is an incomplete or wrongly...

Points: 1

Question	A _____ is an incomplete or wrongly defined process of an action in a software program
-----------------	--

Answer	Error
<input checked="" type="checkbox"/>	Fault
	Failure
	Bug

 21. Multiple Choice: Which one is not the verification act...

Points: 1

Question	Which one is not the verification activity
Answer	Reviews
	Path Testing
	Walkthrough
<input checked="" type="checkbox"/>	AcceptanceTesting

 22. Multiple Choice: Functionality of a software is tested...

Points: 1

Question	Functionality of a software is tested by
Answer	White box testing
	Regression testing
<input checked="" type="checkbox"/>	Black box testing
	None of these

 23. Multiple Choice: "If every requirement can be checked ...

Points: 1

Question	"If every requirement can be checked by a cost effective process, then SRS is _____"
Answer	<input checked="" type="checkbox"/> Verifiable
	Traceable

Modifiable

Complete



Points: 1

24. Multiple Choice: Which of the following term describes...

Question	Which of the following term describes testing?
Answer	<p>Finding broken code</p> <p><input checked="" type="radio"/> Evaluating software developed to find errors</p> <p>finding the absence of errors</p> <p>None of these</p>



Points: 1

25. Multiple Choice: White Box techniques are also classif...

Question	White Box techniques are also classified as
Answer	<p><input checked="" type="radio"/> Structural testing</p> <p>design based testing</p> <p>Error guessing technique</p> <p>None of these</p>



Points: 1

26. Multiple Choice: Which one of the following models is ...

Question	Which one of the following models is not suitable for accommodating any change?
-----------------	---

Answer	build and fix model
	RAD
<input checked="" type="checkbox"/>	Waterfall
	Prototype Model

27. Multiple Choice: Which is not one of the types of prot...

Points: 1

Question	Which is not one of the types of prototype of Prototyping Model?
Answer	horizontal prototype
	Vertical prototype
<input checked="" type="checkbox"/>	diagonal prototype
	Domain prototype

28. Multiple Choice: Which one of the following is not a p...

Points: 1

Question	Which one of the following is not a phase of Prototyping Model?
Answer	Quick Design
	Coding
<input checked="" type="checkbox"/>	Prototype Refinement
	Engineer Product

29. Multiple Choice: Rad model has

Points: 1

Question	Rad model has
Answer	2 Phases
	3 Phases
	5 Phases

4 Phases

30. Multiple Choice: Drawbacks of RAD model include

Points: 1

Question	Drawbacks of RAD model include
Answer	<input checked="" type="checkbox"/> Highly specialized & skilled developers/designers are required. <hr/> <input type="checkbox"/> Increases re-usability of components <hr/> <input type="checkbox"/> Encourages customer/client feedback <hr/> <input type="checkbox"/> Both 1 & 3

31. Multiple Choice: Which model can be used if user is in...

Points: 1

Question	Which model can be used if user is involved in all the phases of SDLC?
Answer	<input type="checkbox"/> Waterfall model <hr/> <input type="checkbox"/> RAD <hr/> <input type="checkbox"/> Prototype <hr/> <input checked="" type="checkbox"/> Both RAD and Prototype

32. Multiple Choice: Which one is not a step of requiremen...

Points: 1

Question	Which one is not a step of requirement engineering
Answer	<input type="checkbox"/> Requirements elicitation <hr/> <input type="checkbox"/> Requirements analysis <hr/> <input checked="" type="checkbox"/> Requirements design <hr/> <input type="checkbox"/> Requirements documentation

Points: 1

**33. Multiple Choice: Which one is not a requirements elici...**

Question	Which one is not a requirements elicitation technique?
Answer	Interviews
	Use Case Approach
	Fast
	<input checked="" type="checkbox"/> Data Flow Diagram

**34. Multiple Choice: Overview of system is defined by**Points: **1**

Question	Overview of system is defined by
Answer	DFD
	SRS
	<input checked="" type="checkbox"/> Context Diagram
	Use Case

**35. Multiple Choice: Which one is not a functional require...**Points: **1**

Question	Which one is not a functional requirement?
Answer	Efficiency
	Stability
	<input checked="" type="checkbox"/> Product Features
	Reliability

**36. Multiple Choice: Which one is a quality attribute?**Points: **1**

Question	Which one is a quality attribute?
-----------------	-----------------------------------

Answer	Reliability
	Avability
	Security
<input checked="" type="checkbox"/>	All of the above



Points: 1

37. Multiple Choice: Which is not a type of requirements u...

Question	Which is not a type of requirements under quality function deployment
Answer	Normal requirements
	Abnormal requirements
	Expected Requirements
<input checked="" type="checkbox"/>	Exciting Requirements



Points: 2

38. Multiple Choice: "A system has 15 user inputs (Average... (Average...

Question	"A system has 15 user inputs (Average), 10 user outputs (High), 5 user inquiries (High), 8 internal logical files (Low) and 4 external interface (High). The UFP Count is_____"
Answer	236
	248
	244
<input checked="" type="checkbox"/>	256



Points: 2

39. Multiple Choice: "The size of an organic type product ...

Question	"The size of an organic type product is 32,000 lines of source code. The effort required to develop using basic COCOMO model is"
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Answer 96

91

196

191

Points: **2**



40. Multiple Choice: "The size of an organic type product ...

Question "The size of an organic type product is 32,000 lines of source code. The estimated time of developemnt using basic COCOMO model is"

Answer 14 months

12 months

15 months

19 months

Points: **2**



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

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 Payback period is estimated as_____ years"

Answer 2.45

2.54

2.28

2.36

Points: **2**



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

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 ROI for the project is_____percent"

Answer 32.67

35.67

25.67

33.33



Points: **2**

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

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 is _____ lacs"

Answer 141.89

143.37

146.63

151.89



Points: **3**

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

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 discount rate for which NPV is nearly zero is _____"

Answer 41.5

44.4

38.5

35.5



45. Multiple Choice: Productivity for a project of 400 KLO...

Points: **3**

Question Productivity for a project of 400 KLOC using COCOMO Model is _____ LOC/PM

Answer	75.3
	74.9
<input checked="" type="checkbox"/>	83.8
	76.6

46. Multiple Choice: The average staffing size for a 400 K...

Points: 3

Question	The average staffing size for a 400 KLOC project using COCOMO Model is__ persons
Answer	131.8
<input checked="" type="checkbox"/>	125.6
	135.4
	130.9

47. Multiple Choice: "A program has 5 EIs of simple type, ...

Points: 3

Question	"A program has 5 EIs of simple type, 4 EOs of average type, 4 EQs of complex type, 3 ILFs of average type and 4 EIFs of complex type. The complexity adjustment factors are to be taken as average. The FP for this program is_____"
Answer	128
	131
<input checked="" type="checkbox"/>	138
	145

48. Multiple Choice: The effort for a project of size 500 ...

Points: 3

Question	The effort for a project of size 500 KLOC using COCOMO Model is_____PM
Answer	6328
	6350

6268

 6238

Points: 3

49. Multiple Choice: "A project has expenditure of 280 lac...

Question	"A project has expenditure of 280 lacs and the revenues at the end of each year are 60, 90, 120, 150 and 180 lacs. ROI is _____percent"
Answer	<input checked="" type="checkbox"/> 22.86
	<input type="checkbox"/> 25.14
	<input type="checkbox"/> 23.86
	<input type="checkbox"/> 27.14



Points: 3

50. Multiple Choice: "A project has expenditure of 280 lac...

Question	"A project has expenditure of 280 lacs and the revenues at the end of each year are 60, 90, 120, 150 and 180 lacs. NPV assuming 12.5 percent discount rate is _____ lacs"
Answer	<input type="checkbox"/> 132.55
	<input type="checkbox"/> 135.46
	<input checked="" type="checkbox"/> 122.25
	<input type="checkbox"/> 128.67



Points: 3

**51. Multiple Choice: For a given system UFP= 628 and CAF
=...**

Question	For a given system UFP= 628 and CAF = 1.07. Calculate FP
Answer	<input type="checkbox"/> 671
	<input type="checkbox"/> 670

672

673



Points: 3

52. Multiple Choice: "Using SEL Model, find the LOC for 8 ...

Question	"Using SEL Model, find the LOC for 8 person-years of effort"
Answer	<input checked="" type="checkbox"/> 94264 LOC
	<input type="checkbox"/> 94263 LOC
	<input type="checkbox"/> 94262 LOC
	<input type="checkbox"/> 94261 LOC



Points: 3

53. Multiple Choice: "For a given 400KLOC, using semidetac...

Question	"For a given 400KLOC, using semidetached mode calculate effort for COCOMO Model 1"
Answer	<input type="checkbox"/> 1295.31 PM
	<input checked="" type="checkbox"/> 2463.79 PM
	<input type="checkbox"/> 4772.81 PM
	<input type="checkbox"/> 1267.89 PM



Points: 3

54. Multiple Choice: "For a given E=1133.11 PM and D=29.3

...

Question	"For a given E=1133.11 PM and D=29.3 PM, calculate Average staff size"
Answer	<input checked="" type="checkbox"/> 38
	<input type="checkbox"/> 37

36

35



Points: 3

55. Multiple Choice: "For a given Degree of Influence as 3...

Question	"For a given Degree of Influence as 30, calculate CAF"
Answer	0.92
	0.93
	0.94
	<input checked="" type="checkbox"/> 0.95



Points: 3

56. Multiple Choice: ""For year =4, investment 30k and di...

Question	""For year =4, investment 30k and discount rate 10% calculate Discounted Cash flow""
Answer	27.27K
	<input checked="" type="checkbox"/> 20.49K
	24.79K
	22.53K



Points: 3

57. Multiple Choice: "A project has cashflows of -100000,
...

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 is _____percent"
Answer	11

12

 10

13



Points: 3

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

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 is _____ lacs"
Answer	145.63
	<input checked="" type="checkbox"/> 146.63
	163.41
	168



Points: 3

59. Multiple Choice: The average staffing size for a 200 K...

Question	The average staffing size for a 200 KLOC project using COCOMO Model is ___persons
Answer	<input checked="" type="checkbox"/> 38.67
	35.78
	67.51
	56.9



Points: 3

60. Multiple Choice: "A program has 5 EIs of simple type, ...

Question "A program has 5 EIs of simple type, 4 EOs of average type, 4 EQs of complex type, 3 ILFs of average type and 4 EIFs of complex type. The complexity adjustment factors are to be taken as average. The UFP for this program is_"

Answer  129

130

131

132

Select: [All](#) [None](#) Select by Type:

Delete and Regrade

Points

Update and Regrade

Hide Question Details