


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

This Test has 45 attempts. For information on editing questions, click **More Help** below. ✕

Test Canvas: SEPM_ENDSEM_GG

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	60 Questions
	2 hours
Instructions	Date: 8/July/2020
	Time: 2:00pm-4:00pm
Total Questions	60
Total Points	100
Number of Attempts	45

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

Delete and Regrade

Points

Update and Regrade

Hide Question Details

Points: 1

1. Multiple Choice: MC: Why is Requirements Elicitation a dif...

Question	Why is Requirements Elicitation a difficult task?
Answer	Problem of understanding

Problem of scope



← OK

Problem of volatility

All of these

2. Multiple Choice: The radial dimension of spiral repres...

Points: 1

Question The radial dimension of spiral represents

Answer Cumulative costs

Cumulative benefits

Both a and b

none of these

3. Multiple Choice: The difficulties that need to be reso...

Points: 1

Question The difficulties that need to be resolved with Spiral model include

Answer Lack of explicit process guidance in determining objectives

relying on risk assessment expertise

providing more flexibility than required for many applications

All of these

4. Multiple Choice: MC: The angular dimension of spiral repre...

Points: 1

Question The angular dimension of spiral represents

Answer Cumulative costs

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"
Answer	<p><input checked="" type="checkbox"/> Functional</p> <p>Non-Functional</p>

Known Requirement

None of the mentioned

8. Multiple Choice: QFD stands for

Points: 1

Question	QFD stands for
Answer	<input type="checkbox"/> quality function design
	<input type="checkbox"/> quality function development
	<input checked="" type="checkbox"/> quality function deployment
	<input type="checkbox"/> none of the mentioned

9. Multiple Choice: RAD Software process model stands for...

Points: 1

Question	RAD Software process model stands for _____
Answer	<input checked="" type="checkbox"/> Rapid Application Development
	<input type="checkbox"/> Relative Application Development
	<input type="checkbox"/> Rapid Application Design
	<input type="checkbox"/> Recent Application Development

10. Multiple Choice: COCOMO stands for _____

Points: 1

Question	COCOMO stands for _____
Answer	<input type="checkbox"/> COnsumed COst Model
	<input checked="" type="checkbox"/> COnstructive COst Model
	<input type="checkbox"/> COmmon COntrol Model
	<input type="checkbox"/> COmposition COst Model



Points: 1

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

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



Points: 1

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

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



Points: 1

13. Multiple Choice: Software testing includes

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



Points: 1

14. Multiple Choice: A tester needs

Question	A tester needs
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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	SDD
	<input checked="" type="checkbox"/> SRS
	Flowcharts
	All of the above

19. Multiple Choice: White box testing takes inputs from

Points: 1

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

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

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

Points: 1

Question	Which of the following term describes testing?
Answer	<p>Finding broken code</p> <hr/> <p><input checked="" type="checkbox"/> Evaluating software developed to find errors</p> <hr/> <p>finding the absence of errors</p> <hr/> <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="checkbox"/> Structural testing</p> <hr/> <p>design based testing</p> <hr/> <p>Error guessing technique</p> <hr/> <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	<p>build and fix model</p> <hr/> <p>RAD</p> <hr/> <p><input checked="" type="checkbox"/> Waterfall</p> <hr/> <p>Prototype Model</p>



Points: 1

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

Question	Which is not one of the types of prototype of Prototyping Model?
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Answer horizontal prototype

Vertical prototype

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

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

Highly specialized & skilled developers/designers are required.

Increases re-usability of components

Encourages customer/client feedback

Both 1 & 3

Points: **1****31. Multiple Choice: Which model can be used if user is in...****Question**

Which model can be used if user is involved in all the phases of SDLC?

Answer

Waterfall model

RAD

Prototype



Both RAD and Prototype

Points: **1****32. Multiple Choice: Which one is not a step of requiremen...****Question**

Which one is not a step of requirement engineering

Answer

Requirements elicitation

Requirements analysis



Requirements design

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

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"
Answer	96
	<input checked="" type="checkbox"/> 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 developmemnt using basic COCOMO model is"
Answer	<input checked="" type="radio"/> 14 months
	<input type="radio"/> 12 months
	<input type="radio"/> 15 months
	<input type="radio"/> 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	<input type="radio"/> 2.45
	<input type="radio"/> 2.54
	<input type="radio"/> 2.28
	<input checked="" type="radio"/> 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	<input checked="" type="radio"/> 32.67
	<input type="radio"/> 35.67
	<input type="radio"/> 25.67
	<input type="radio"/> 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
	<input checked="" type="radio"/> 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
	<input checked="" type="radio"/> 38.5
	35.5



Points: 3

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

Question	Productivity for a project of 400 KLOC using COCOMO Model is _____ LOC/PM
Answer	75.3
	74.9
	<input checked="" type="radio"/> 83.8
	76.6

Points 3

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

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

Points: 3

 47. 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 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="radio"/> 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
	<input checked="" type="radio"/> 6238

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

Points: 3

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="radio"/> 22.86
	<input type="radio"/> 25.14
	<input type="radio"/> 23.86
	<input type="radio"/> 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="radio"/> 132.55
	<input type="radio"/> 135.46
	<input checked="" type="radio"/> 122.25
	<input type="radio"/> 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="radio"/> 671
	<input type="radio"/> 670
	<input checked="" type="radio"/> 672
	<input type="radio"/> 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="radio"/> 94264 LOC
	<input type="radio"/> 94263 LOC
	<input type="radio"/> 94262 LOC
	<input type="radio"/> 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="radio"/> 1295.31 PM
	<input checked="" type="radio"/> 2463.79 PM
	<input type="radio"/> 4772.81 PM
	<input type="radio"/> 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="radio"/> 38
	<input type="radio"/> 37
	<input type="radio"/> 36
	<input type="radio"/> 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="radio"/> 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="radio"/> 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
	<input checked="" type="radio"/> 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