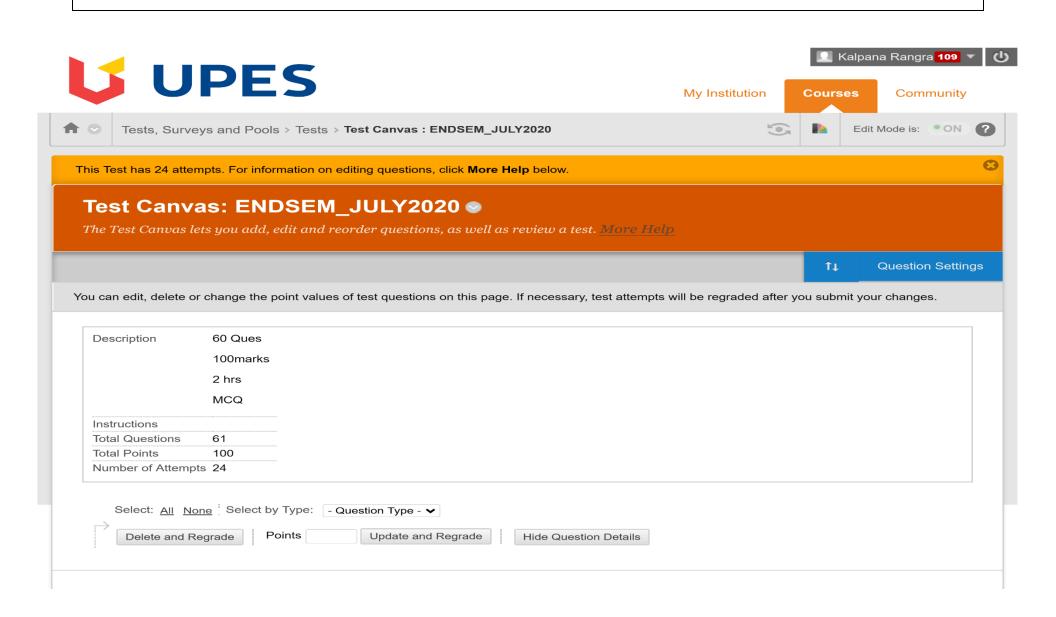| Name: Enrolment No:	UPES UNIVERSITY WITH A PURPOSE

UNIVERSITY OF PETROLEUM AND ENERGY STUDIES
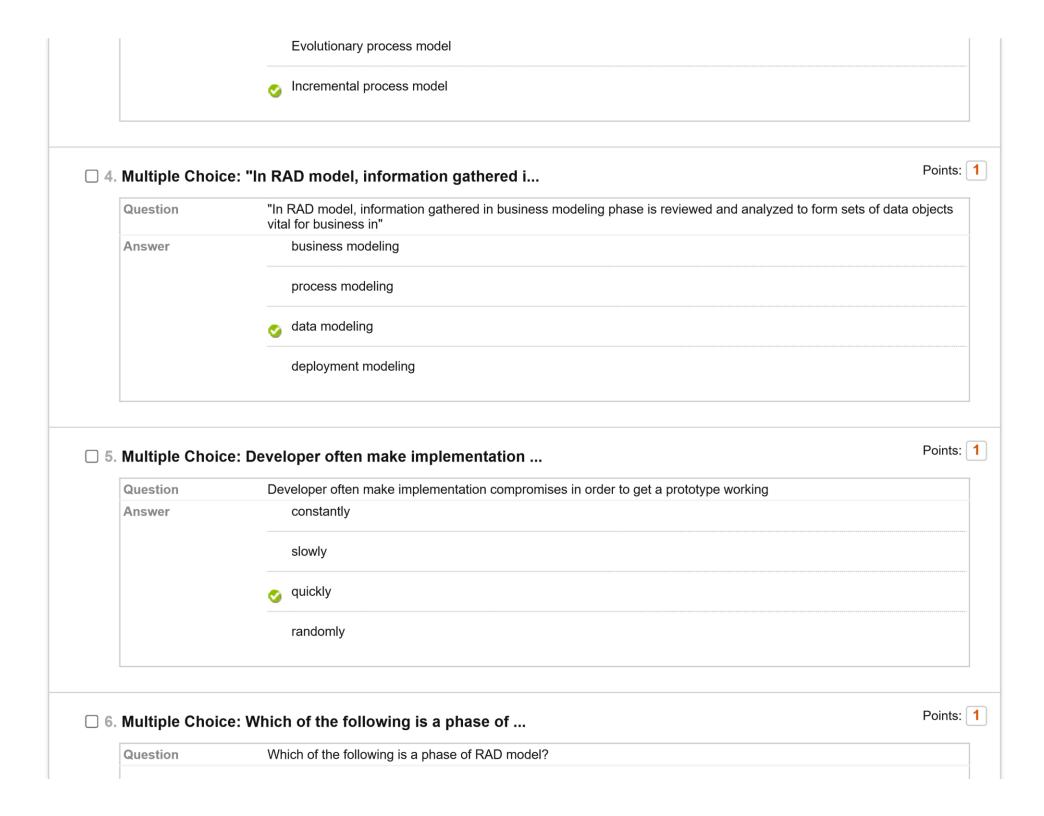**End Semester Examination, July 2020**

Course: Software Engineering and Project Management   **Semester:** IV
Program: B.Tech MAD   **Time:** 02 hrs.

Course Code: CSEG2008   **Max. Marks:** 100

Tests, Surveys and Pools > Tests > **Test Canvas : ENDSEM_JULY2020**   Edit Mode is: ● ON

This Test has 24 attempts. For information on editing questions, click **More Help** below.

Test Canvas: ENDSEM_JULY2020

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 Ques
	100marks
	2 hrs
	MCQ

Instructions	
Total Questions	61
Total Points	100
Number of Attempts	24

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

Delete and Regrade   Points [   ]   Update and Regrade   Hide Question Details

1. Multiple Choice: 61: In Boundary Testing, Equivalence C...

Points: **2**

Question

- In Boundary Testing, Equivalence Class Partitioning plays a good role
- Boundary Testing comes after the Equivalence Class Partitioning.

Answer

Either of one is true

✅ Both are true

Both are false

only 2 is true

2. True / False: 60: There are three main classifications ...

Points: **1**

Question

There are three main classifications of risks which can affect a software project:
Project risks
Technical risks
Business risks

Answer

✅ True

False

3. Multiple Choice: A process of software development w...

Points: **1**

Question

A process of software development where requirements are broken down into multiple standalone modules of software development cycle

Answer

Waterfall model

RAD model

Evolutionary process model

✓ Incremental process model

4. Multiple Choice: "In RAD model, information gathered i...

Points: **1**

Question	"In RAD model, information gathered in business modeling phase is reviewed and analyzed to form sets of data objects vital for business in"
Answer	business modeling
	process modeling
	✓ data modeling
	deployment modeling

5. Multiple Choice: Developer often make implementation ...

Points: **1**

Question	Developer often make implementation compromises in order to get a prototype working
Answer	constantly
	slowly
	✓ quickly
	randomly

6. Multiple Choice: Which of the following is a phase of ...

Points: **1**

Question	Which of the following is a phase of RAD model?

Answer	Business modelling
	Data modelling
	Application generation
✅	All of the above

7. Multiple Choice: A cross life-cycle activity of system...

Points: 1

Question	A cross life-cycle activity of system development is
Answer	Data modelling
✅	Fact finding
	Prototyping
	Data Flow Diagram modelling

8. Multiple Choice: Which model is most popular for stude...

Points: 1

Question	Which model is most popular for student s small projects?
Answer ✅	Waterfall model
	Spiral model
	Quick and fix model
	Prototyping model

9. Multiple Choice: Which is not a software life cycle ...   Points: 1

Question	Which is not a software life cycle model?
Answer	Waterfall model
	Spiral model
	✅ Capability maturity model
	Prototyping model

10. Multiple Choice: SRS stands for   Points: 1

Question	SRS stands for
Answer	Software requirements solution
	System requirements specification
	✅ Software requirements specification
	none of given

11. Multiple Choice: Which phase is not available in soft...   Points: 1

Question	Which phase is not available in software life cycle?
Answer	Coding
	Testing
	Maintenance
	✅ Abstraction

12. Multiple Choice: The development is supposed to proce...

Points: 1

Question	The development is supposed to proceed linearly through the phase in
Answer	Spiral model
	✓ Waterfall model
	Prototyping model
	None of the above

13. Multiple Choice: Project risk factor is considered in

Points: 1

Question	Project risk factor is considered in
Answer	✓ Spiral model
	Iterative model
	Prototyping model
	Waterfall model

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

Points: 2

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

□ **15.** **Multiple Choice: "A system has 15 user inputs (Average...**   Points: **2**

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
	✅ 256

□ **16.** **Multiple Choice: "A project has expenditure of 180 lac...**   Points: **2**

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

□ **17.** **Multiple Choice: "Assume that the size of an organic t...**   Points: **2**

| Question | |

"Assume that the size of an organic type software product has been estimated to be 32,000 lines of source code. Assume that the average salary of software engineers be Rs. 15,000/- per month. Determine the effort required to develop the software product and the nominal development time.From the basic COCOMO estimation formula for organic software:From the basic COCOMO estimation formula for organic software: Nominal Development Time is"

Answer

✅ 14 months

12 months

15 months

19 months

☐ 18. **Multiple Choice: "Project A is to be a 32,000 LOCsemi-...**
Points: 2

Question "Project A is to be a 32,000 LOCsemi-detached software. It is in a mission critical area, so the reliability is high (RELY=high=1.15). Then calculate:EFFORT"

Answer
268

168

✅ 167

267

☐ 19. **Multiple Choice: "Project A is to be a 32,000 LOC semi...**
Points: 2

Question "Project A is to be a 32,000 LOC semi-detached software. It is in a mission critical area, so the reliability is high (RELY=high=1.15). Then calculate:SCHEDULE"

Answer
14 months

12 months

✓ 15 months

19 months

---

20. Multiple Choice: "Project A is to be a 32,000 DSI semi...

Points: **2**

Question	"Project A is to be a 32,000 DSI semi-detached software. It is in a mission critical area, so the reliability is high (RELY=high=1.15). Then calculate:Productivity"
Answer	✓ 192
	178
	191
	198

---

21. Multiple Choice: "A company wants to start a Project a...

Points: **2**

Question	"A company wants to start a Project and to calculate its feasibility,The Projects uses the model as an equation to estimate the desired values such as cost, time, effort, etc. They all depend on the same variable used as predictor (say, size). mind Company deduced that the project they are using is of size 500 KLOC, Based on the data given calculate EFFORT"
Answer	✓ 453.0751
	553.0751
	653.0751
	463.0751

Multiple Choice: "A company wants to start a Project a...

Points: **2**

Question	"A company wants to start a Project and to calculate its feasibility,The Projects uses the model as an equation to estimate the desired values such as cost, time, effort, etc. They all depend on the same variable used as predictor (say, size). mind Company deduced that the project they are using is of size 500 KLOC, Based on the data given if Company need to calculate what will be the documentation size "
Answer	3812.40733
	6757.127634
	✅ 8164.8195
	9012.7653

23. **Multiple Choice: "A company wants to start a Project a...**

Points: **2**

Question	"A company wants to start a Project and to calculate its feasibility,The Projects uses the model as an equation to estimate the desired values such as cost, time, effort, etc. They all depend on the same variable used as predictor (say, size). mind Company deduced that the project they are using is of size 500 KLOC, Based on the data given what will be the duration of the project "
Answer	565.12
	45.89
	✅ 23.1468
	314.765

24. **Multiple Choice: "A company wants to start a Project a...**

Points: **2**

Question	"A company wants to start a Project and to calculate its feasibility,Company deduced that the project they are using is of size 500 KLOC, Based on the data given Effort required is"

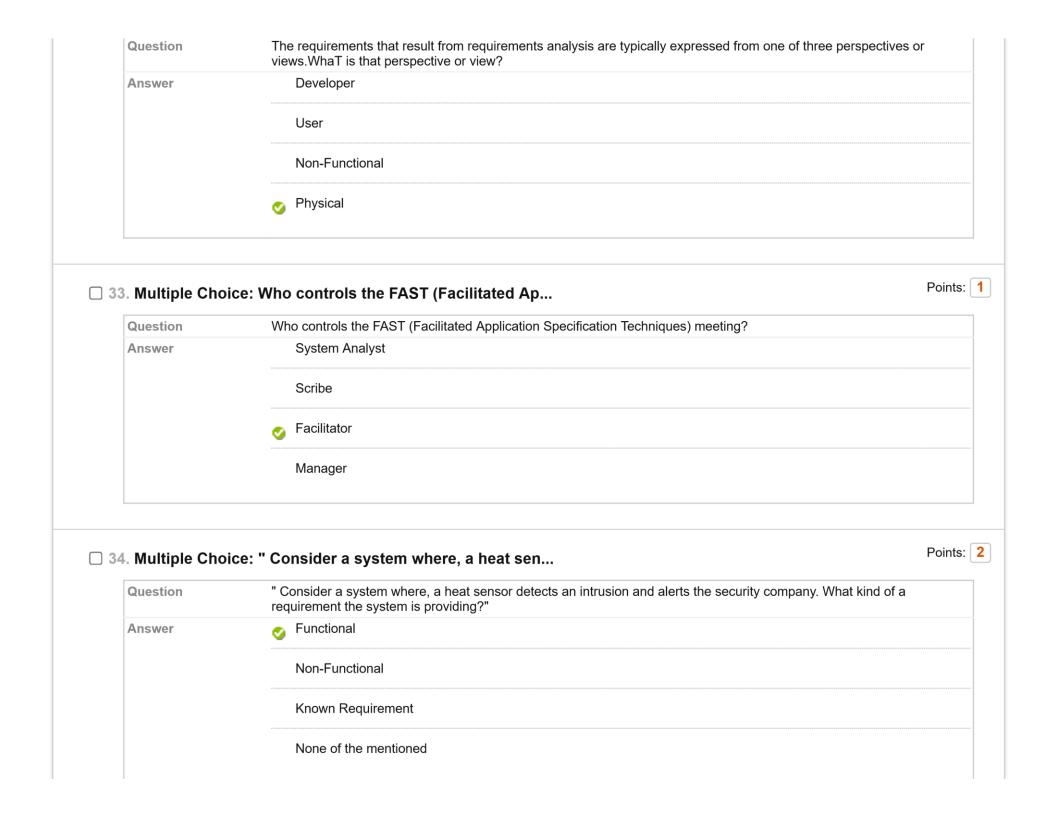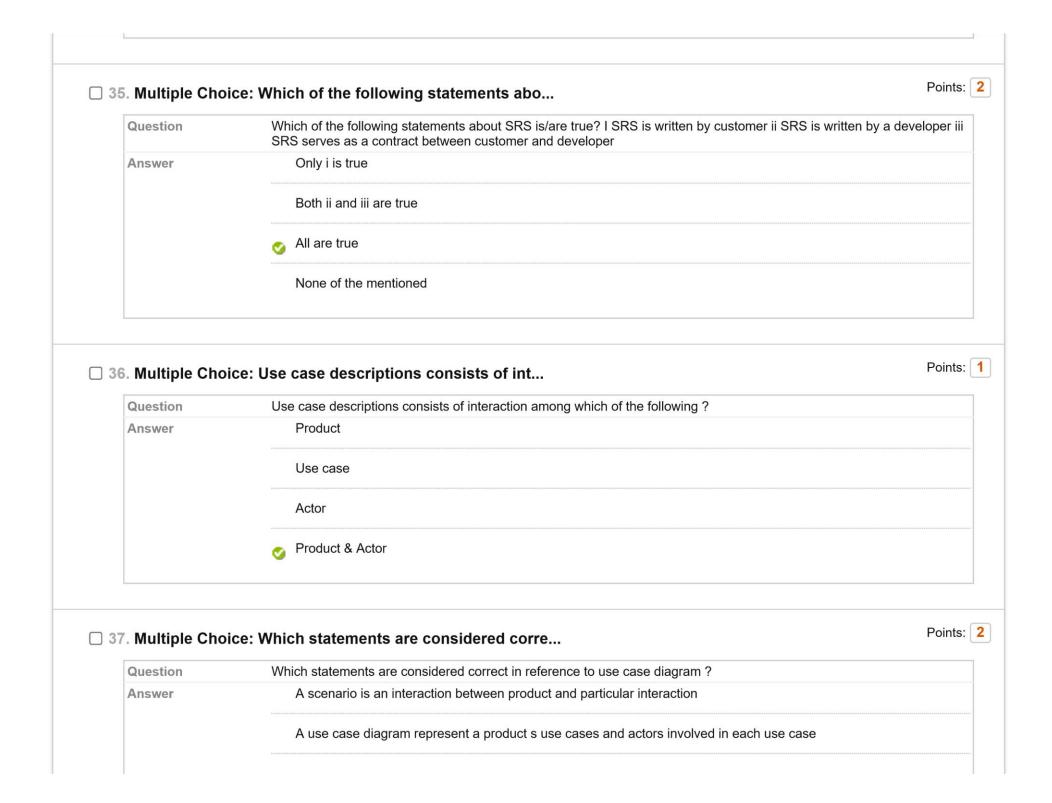| Answer	3321.8752
	✅ 1486.1617
	1678.3452
	2345.1234

☐ **25.** **Multiple Choice: "A company wants to start a Project a...**   Points: **2**

Question	"A company wants to start a Project and to calculate its feasibility,There is another method which states that there is some models which are often based on equation (i), they actually depend on several variables representing various aspects of the software development environment, for example method used, user participation, customer oriented changes, memory constraints, etc.Company deduced that the project they are using is of size 500 KLOC, Based on the data given what will be the duration of the project"
Answer	67.1234
	89.5678
	651.8901
	✅ 38.4072

☐ **26.** **Multiple Choice: Which of the following is not include...**   Points: **1**

Question	Which of the following is not included in SRS ?
Answer	Performance
	Functionality
	✅ Design solutions

External Interfaces

27. Multiple Choice: The SRS document is also known as ___... Points: 1

Question	The SRS document is also known as _____ specification.
Answer	✅ black-box
	white-box
	grey-box
	none of the mentioned

28. Multiple Choice: What kind of approach was introduced ... Points: 1

Question	What kind of approach was introduced for elicitation and modelling to give a functional view of the system?
Answer	Object Oriented Design (by Booch)
	✅ Use Cases (by Jacobson)
	Fusion (by Coleman)
	Object Modeling Technique (by Rumbaugh)

29. Multiple Choice: Why is Requirements Elicitation a dif... Points: 1

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

Problem of understanding

Problem of volatility

✅ All of the mentioned

□ 30. **Multiple Choice: How many Scenarios are there in elici...**

Points: **1**

Question	How many Scenarios are there in elicitation activities?
Answer	One
	Two
	Three
	✅ Four

□ 31. **Multiple Choice: Which of the following is not a diagr...**

Points: **1**

Question	Which of the following is not a diagram studied in Requirement Analysis?
Answer	Use Cases
	Entity Relationship Diagram
	State Transition Diagram
	✅ Activity Diagram

□ 32. **Multiple Choice: The requirements that result from req...**

Points: **2**

Question	The requirements that result from requirements analysis are typically expressed from one of three perspectives or views. WhaT is that perspective or view?
Answer	Developer
	User
	Non-Functional
	✅ Physical

33. Multiple Choice: Who controls the FAST (Facilitated Ap...

Points: 1

Question	Who controls the FAST (Facilitated Application Specification Techniques) meeting?
Answer	System Analyst
	Scribe
	✅ Facilitator
	Manager

34. Multiple Choice: " Consider a system where, a heat sen...

Points: 2

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	✅ Functional
	Non-Functional
	Known Requirement
	None of the mentioned

35. Multiple Choice: Which of the following statements abo...

Points: **2**

Question	Which of the following statements about SRS is/are true? I SRS is written by customer ii SRS is written by a developer iii SRS serves as a contract between customer and developer
Answer	Only i is true
	Both ii and iii are true
	✅ All are true
	None of the mentioned

36. Multiple Choice: Use case descriptions consists of int...

Points: **1**

Question	Use case descriptions consists of interaction among which of the following ?
Answer	Product
	Use case
	Actor
	✅ Product & Actor

37. Multiple Choice: Which statements are considered corre...

Points: **2**

Question	Which statements are considered correct in reference to use case diagram ?
Answer	A scenario is an interaction between product and particular interaction
	A use case diagram represent a product s use cases and actors involved in each use case

✓ All of the mentioned

None of the mentioned

☐ 38. **Multiple Choice: In dataflow diagram process is repres...**   Points: **2**

Question	In dataflow diagram process is represented by a _____
Answer	✓ circle
	rectangle
	triangle
	parallelogram

☐ 39. **Multiple Choice: A Data Flow Diagram (DFD) is compose...**   Points: **2**

Question	A Data Flow Diagram (DFD) is composed of which elements?
Answer	Data sources and destinations
	Data flows
	Transformation processes
	✓ All of the above

☐ 40. **Multiple Choice: Many documentation tools are availabl...**   Points: **2**

Question	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

41. Multiple Choice: Which of the following is not a guide...

Points: **2**

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

42. True / False: SRS is modifiable as the user require...

Points: **1**

Question	SRS is modifiable as the user requirements keep on changing
Answer	✅ True
	False

43. Multiple Choice: Who can then check which risks from e...

Points: **2**

Question	Who can then check which risks from each class are relevant to the project.
Answer	✅ project manager
	product manager

sprint manager

risk manager

☐ **44. Multiple Choice: Not having enough number of developer...**   Points: **2**

Question	Not having enough number of developers can delay the project delivery.This type of risk belongs to
Answer	known-unknown risk
	✅ known-known risk
	unknown risk
	known risk

☐ **45. Multiple Choice: This is a fact known to the project t...**   Points: **2**

Question	This is a fact known to the project team however whether the client has communicated all the information properly or not is unknown to the project
Answer	✅ known-unknown risk
	known-known risk
	unknown risk
	known risk

☐ **46. Multiple Choice: "The standard is divided into four pa...**   Points: **2**

Question	"The standard is divided into four parts which addresses, respectively, the following subjects: quality model; external metrics; internal metrics; and quality in use metrics."
Answer	✅ ISO
	MC CALL
	both of given
	none

47. **True / False: "The ISO 9126 software quality model ...** Points: 1

Question	"The ISO 9126 software quality model identifies 4 main quality characteristics, namely:Functionality, Reliability, Usability, Portability"
Answer	True
	✅ False

48. **Multiple Choice: The framework which is used to analys...** Points: 2

Question	The framework which is used to analyse the approach and techniques followed by any organization to develop a software product.
Answer	✅ CMM
	ISO
	MC CALL
	All of the mentioned

49. **Multiple Choice: The system of identifying addressing ...** Points: 2

| Question | The system of identifying addressing and eliminating these problems before they can damage the project is called _____ |

Answer	project management
	testing
	quality management
✅	risk management

50. Multiple Choice: Risk management activities in broad c...

Points: **2**

Question	Risk management activities in broad categories include
Answer ✅	risk assesment and risk control
	ridk identification and risk avoidance
	risk prioritization and risk elimination
	risk identification and risk resolution

51. Multiple Choice: Planning risk management involves

Points: **2**

Question	Planning risk management involves
Answer	Avoid risk
	Reduce risk
	Transfer risk
✅	All of the mentioned

52. Multiple Choice: Risk associated with development team...

Points: **2**

Question	Risk associated with development team profesionals is called
Answer	Technical risk
	✓ People risk
	Organization risk
	software risk

53. Multiple Choice: "The testing technique in which funct...

Points: **2**

Question	"The testing technique in which functionality of the Application Under Test (AUT) is tested without looking at the internal code structure, implementation details and knowledge of internal paths of the software is called"
Answer	functional testing
	structural testing
	✓ Blackbox testing
	glass box testing

54. Multiple Choice: Black box testing type is related to ...

Points: **2**

Question	Black box testing type is related to the functional requirements of a system; it is done by software testers.
Answer	✓ functional testing
	structural testing
	technical testing

glass box testing

55. Multiple Choice: "_____is done after cod...

Points: 2

Question	"_____is done after code fixes, upgrades or any other system maintenance to check the new code has not affected the existing code."
Answer	Maintainance testing
	✅ Regression testing
	structure testing
	risk testing

56. Multiple Choice: Regression Testing is a type of

Points: 2

Question	Regression Testing is a type of
Answer	✅ Black box testing
	White Box Testing
	function testing
	non-functional testing

57. Multiple Choice: EQP and BVA belongs to

Points: 2

Question	EQP and BVA belongs to
Answer	✅ Black box testing

White Box Testing

function testing

non-functional testing

□ **58.** **Multiple Choice: "Testing of a software solution's int...**

Points: **2**

Question	"Testing of a software solution's internal structure, design, and coding. In this type of testing, the code is visible to the tester is called"
Answer	Black box testing
	✅ White Box Testing
	function testing
	non-functional testing

□ **59.** **Multiple Choice: Statement coverage and Branch Coverag...**

Points: **2**

Question	Statement coverage and Branch Coverage belongs to
Answer	Black box testing
	✅ White Box Testing
	function testing
	non-functional testing

□ **60.** **Multiple Choice: "Acting as project leader, Liaison wi...**

Points: **2**

Question	"Acting as project leader, Liaison with stakeholders, Managing human resources, Setting up reporting hierarchy etc. belongs to which category of roles"
Answer	✅ People management
	product management
	Organization management
	Project Management

☐ **61. Multiple Choice: "Defining and setting up project scop...** Points: **2**

Question	"Defining and setting up project scope,Act as spoke person, Managing project management activities, Monitoring progress and performance,Risk analysis at every phase,Take necessary step to avoid or come out of problems. All these belong to which category of roles of Project manager"
Answer	People management
	product management
	Organization management
	✅ Project Management

Select: <u>All</u> <u>None</u>   Select by Type: [- Question Type - ▼]

[Delete and Regrade]   Points [____]   [Update and Regrade]   [Hide Question Details]

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