Saudi Electronic University College of Computing and Informatics
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Answer: c

Q1: For each of the following multiple choice questions, choose one correct answer.

- A software product line is a set of software-intensive systems that share a common, managed ______.
 - a) Set of problems
 - b) Set of products
 - Set of features
 - d) Set of lines

2. Which of the following did not belong to the process umbrella activities?

- a) Software project tracking and control
- b) Risk management
- c) Technical reviews
- d) None of the above
- 3. Which of the following is not a software life cycle?
 - a) Spiral model
 - b) Capability maturity model
 - c) Prototype model
 - d) Waterfall model
- 4. The team member who is assigned the boundary spanning role that crosses the team boundaries to collect information is called:
 - a) Ambassador
 - b) Sentry
 - c) Scout
 - d) Coordinator

5. Requirement models depict software in which three domains?

- a) Architecture, interface, component
- b) Cost, risk, schedule
- c) Information, function, behavior
- d) None of the above

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2

Answer: c

Answer: b

Answer: d



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6. The last task of the Requirements Engineering process is:

- a) Negotiation
- b) Validation
- c) Management
- d) Specification
- 7. Which model in requirements modelling depicts how data are transformed inside the system?
 - a) Scenario-based
 - b) Class-oriented
 - c) Behavioral
 - d) Flow-oriented
- 8. One way to identify analysis classes in requirements modeling is:
 - a) Ask the customer to define the classes that he/she wants.
 - b) Perform "Grammatically Parse"
 - c) Approach the project manager for answers
 - d) Conduct CRC review meetings
- 9. All of the following are class types except:
 - a) Dependency classes
 - (a) Entity classes
 - c) Boundary classes
 - d) Controller classes

is simply the current status of all of an object's attributes. 10. The

- a) passive state
- b) active state
- c) event
- d) state transition

[10 Marks]

Answer: a

3

Answer: b

Answer: a

Answer: d

Answer: c



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Q2: For each of the following statements, answer with True or False.

1.	Software is a product and can be manufactured using the same technologies used for other engineering artifacts.	F
2.	A concerted effort should be made to understand the problem before a software solution is developed.	Т
3.	Agile methods seem to work best when team members have a relatively high skill level.	т
4.	Software engineering team structure is independent of problem difficulty and size of resultant program(s) in lines of code.	F
5.	The design model should be traceable to the requirements model.	Т
6.	Non-functional requirements can be safely ignored in modern software development projects.	F
7.	A Use-case actor is always a person having a role that different people may play.	F
8.	In class based requirement modeling, CRC stands for Cyclic-Redundancy- Check.	F
9.	The most basic element in the description of a requirements model is the software pattern.	F
10.	Interaction Analysis is the description of the manner in which the user interacts with the WebApp.	T

[10 Marks]

4

الجامعةالسعودية الالكترو Ministry of Higher Education Electronic University Saudi Electronic University College of Computing and Informatics Q3: How do software characteristics differ from hardware characteristics? Software is developed, not manufactured. Software does not wear out. Most software is custom built, not assembled out of components. [4 Marks] Q4: List out the stages of Waterfall Model. Communication Planning project initiation requirement gatheri estimating Modeling scheduling analysis Constructio tracking design Deployment code test delivery support feedback [4 Marks] Q5: Explain the meaning of software domain analysis? The identification, analysis, and specification of common requirements, reuse on multiple projects within that application domain [4 Marks] 5



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Q6: Requirements monitoring encompasses set of tasks. Explain four of these tasks.

- **Distributed debugging** uncovers errors and determines their cause.
- **Run-time verification** determines whether software matches its specification.
- Run-time validation assesses whether evolving software meets user goals.
- Business activity monitoring evaluates whether a system satisfies business goals.
- **Evolution and codesign** provides information to stakeholders as the system evolves.



End of the Exam ... Good Luck

6

دعواتكم لمن أعد هذا الملف