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| **DEPARTMENT OF COMPUTER ENGINEERING** | |
| **Subject :Software Engineering** | | **Class: SE** | |
| **Semester: II** | |  | |
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**MCQ Question bank**

**(Unit 1** **Introduction to Software Engineering and Software Process Models)**

**Q.1.** If you were a lead developer of a software company and you are asked to submit a project/product within a stipulated time-frame with no cost barriers, which model would you select?  
a)Waterfall  
b)Spiral  
c)RAD  
d)Incremental  
Answer: c

**Q.2.** RAD stands for

1. Relative Application Development
2. Rapid Application Development
3. Rapid Application Document
4. None of the mentioned

**Answer:- (2)**

**Q.3.**Which of these software engineering activities are not a part of software processes ?

1. Software dependence
2. Software development
3. Software validation
4. Software specification

**Answer:- (1)**

**Q.4.**Which of these does not affect different types of software as a whole?

1. Heterogeneity
2. Flexibility
3. Business and social change
4. Security

**Answer:- (2)**

**Q.5.**RAD Model has

1. a) 2 phases
2. b) 3 phase
3. c) 5 phases
4. d) 6 phases

**Answer:- (3)**

**Q.6.**Which model can be selected if user is involved in all the phases of SDLC?

1. Waterfall Model
2. Prototyping Model
3. RAD Model
4. both Prototyping Model & RAD Model

**Answer:- (3)**

Q.7. Software engineers should not use their technical skills to misuse other people’s computers. Here the term misuse refers to:

A .Unauthorized modification of computer material

B. Unauthorized access to computer material

C .Dissemination of viruses or other malware

D. All of the mentioned

**Answer:- D**

**Q.8.**What is the major advantage of using Incremental Model?

1. Customer can respond to each increment
2. Easier to test and debug
3. It is used when there is a need to get a product to the market early
4. Easier to test and debug & It is used when there is a need to get a product to the market early

**Answer:- (4)**

**Q.9.**The spiral model was originally proposed by

1. IBM
2. Barry Boehm
3. Pressman
4. Royce

**Answer:- (2)**

**Q.10.**The spiral model has two dimensions namely \_\_\_\_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_\_

1. diagonal, angular
2. radial, perpendicular
3. radial, angular
4. diagonal, perpendicular

**Answer:- (3)**

**Q.11.**How is Incremental Model different from Spiral Model?

1. Progress can be measured for Incremental Model
2. Changing requirements can be accommodated in Incremental Model
3. Users can see the system early in Incremental Model
4. All of the mentioned

**Answer:- (1)**

**Q.12.**If you were a lead developer of a software company and you are asked to submit a project/product within a stipulated time-frame with no cost barriers, which model would you select?

1. Waterfall
2. Spiral
3. RAD
4. Incremental

**Answer:- (3)**

**Q.13.**RUP stands for\_\_\_\_\_\_\_\_\_\_\_\_ created by a division of \_\_\_\_\_\_\_\_\_\_\_\_

1. Rational Unified Program, IBM
2. Rational Unified Process, Infosys
3. Rational Unified Process, Microsoft
4. Rational Unified Process, IBM

**Answer:- (4)**

**Q.14.**Agile Software Development is based on

1. Incremental Development
2. Iterative Development
3. Linear Development
4. Both Incremental and Iterative Development

**Answer:- (4)**

**Q.15.**How many phases are there in Scrum?

1. Two
2. Three
3. Four
4. Scrum is an agile method which means it does not have phases

**Answer:- (2)**

**Q.16.**In agile development it is more important to build software that meets the customers’ needs today than worry about features that might be needed in the future.

1. True
2. False

**Answer:- (1)**

**Q.17.**Incremental development in Extreme Programming (XP) is supported through a system release once every month.

1. True
2. False

**Answer:- (2)**

**Q.18.**In XP Increments are delivered to customers every \_\_\_\_\_\_\_ weeks.

1. One
2. Two
3. Three
4. Four

**Answer:- (2)**

**Q.19.**Which four framework activities are found in the Extreme Programming (XP)?

1. analysis, design, coding, testing
2. planning, analysis, design, coding
3. planning, design, coding, testing
4. planning, analysis, coding, testing

**Answer:- (3)**

**Q.20.**In XP an automated unit test framework is used to write tests for a new piece of functionality before that functionality itself is implemented.

1. True
2. False

**Answer:- (1)**

Q.22 The Incremental Model is a result of combination of elements of which two models?  
a) Build & FIX Model & Waterfall Model  
b) Linear Model & RAD Model  
c) Linear Model & Prototyping Model  
d) Waterfall Model & RAD Model  
Answer: c

Q.23 The factors that determine the quality of a software system are

a.correctness, reliability

b.efficiency, usability, maintainability

c.testability, portability, accuracy, error tolerances, expandability, access control, audit

d.All of the above

Answer: d

Q. **24** Efficiency in a software product does not include \_\_\_\_\_\_\_\_

A. licensing  
B. processing time  
C. responsiveness  
D. memory utilization

Answer: A

Q. **25**What are attributes of good software?

A. Software functionality  
B. Software development  
C. Software maintainability  
D. Both A and C

Ans : D

**Q.27**. Spiral Model has user involvement in all its phases.  
a) True  
b) False

Answer: b

**Q.28** How is Incremental Model different from Spiral Model?  
a) Progress can be measured for Incremental Model  
b) Changing requirements can be accommodated in Incremental Model  
c) Users can see the system early in Incremental Model  
d) All of the mentioned

Answer: a

**Q.29** If you were to create client/server applications, which model would you go for?  
a) waterfall Model  
b) Spiral Model  
c) Concurrent Model  
d) Incremental Model

Answer: c

**Q.30** RUP is abbreviated as \_\_\_\_\_\_\_\_\_\_, invented by a division of \_\_\_\_\_\_\_\_\_\_.

1. Rational Unified Process, IBM
2. Rational Unified Program, IBM
3. Rational Unified Process, Infosys
4. Rational Unified Program, Infosys

Answer: a

**Q.31**. Which of the following are valid step in SDLC framework?

A. Requirement Gathering  
B. System Analysis  
C. Software Design  
D. All of the above

Ans : d

**Q.32** Which of the following is the first step in SDLC framwork?

A. Feasibility Study  
B. Requirement Gathering  
C. Communication  
D. System Analysis

Ans : C

**Q.33**Which of the following is not correct model in Software Development Paradigm?

A. Waterfall Model  
B. P model  
C. Spiral Model  
D. V model

Ans : B.

**Q.34** Waterfall model is not suitable for:

A. Small projects  
B. Complex projects  
C. Accommodating changes  
D. Maintenance Projects

Ans : C

**Q.35**. which one of the following is a functional requirement?

A. Maintainability  
B. Portability  
C. Business needs  
D. Reliability

Ans : C

**Q.36** What is the major drawback of using RAD Model?

A. Highly specialized & skilled developers/designers are required  
B. Increases reusability of components  
C. Encourages customer/client feedback  
D. Increases reusability of components, Highly specialized & skilled developers/designers are required

Ans : D

**Q.37** Select the option that suits the Platform for Agile Software Development  
a) Individuals and interactions  
b) Working software  
c) Customer collaboration  
d) All of the mentioned

Answer:d.

**Q.38** Agile Software Development is based on  
a) Incremental Development  
b) Iterative Development  
c) Linear Development  
d) Both Incremental and Iterative Development

Answer:d  
**Q.39** Which on of the following is not an agile method?  
a) XP  
b) 4GT  
c) FDD  
d) All of the mentioned

Answer:b  
**Q.40** Agility is defined as the ability of a project team to respond rapidly to a change.  
a) True  
b) False  
Answer:b

**Q.41** How is plan driven development different from agile development?  
a) Outputs are decided through a process of negotiation during the software development process  
b) Specification, design, implementation and testing are interleaved  
c) Iteration occurs within activities  
d) All of the mentioned

Answer:c  
**Q.42** How many phases are there in Scrum ?  
a) Two  
b) Three  
c) Four  
d) Scrum is an agile method which means it does not have phases  
View Answer

Answer:b.

**Q.43** Agile methods seem to work best when team members have a relatively high skill level.  
a) True  
b) False  
Answer:a

**Q.44**Which of the following does not apply to agility to a software process?  
a) Uses incremental product delivery strategy  
b) Only essential work products are produced  
c) Eliminate the use of project planning and testing  
d) All of the mentioned  
Answer:c

**Q.46** In agile development it is more important to build software that meets the customers’ needs today than worry about features that might be needed in the future.  
a) True  
b) False  
Answer:a

**Q.47** Selection of a model is based on  
a) Requirements  
b) Development team & Users  
c) Project type and associated risk  
d) All of the mentioned  
Answer: d

**Q.48** Which two models doesn’t allow defining requirements early in the cycle?  
a) Waterfall & RAD  
b) Prototyping & Spiral  
c) Prototyping & RAD  
d) Waterfall & Spiral

Answer: b  
**Q.49** Which of the following life cycle model can be chosen if the development team has less experience on similar projects?  
a) Spiral  
b) Waterfall  
c) RAD  
d) Iterative Model  
Answer: a