

# INSEM Software Engineering - Question Paper

\* Required

Division \*

☐ A

☒ B

8.Which one of the following is not a phase of Prototyping Model ? \*

☐ A. Quick Design

☒ B. Coding

☐ C. Prototype Refinement

☐ D. Engineer Product

Q. 20 The Kano model identifies 4 levels of design requirements? \*

☐ a) True

☒ b) False



Q.34 UML diagram that shows the interaction between users and system, is known as \*

- ☐ a) Activity diagram
- ☐ b) E-R diagram
- ☒ c) Use case diagram
- ☐ d) Class diagram
- ☐ Other:

Q. 30 Functional requirements capture the intended behavior of the system. \*

- ☒ a) True
- ☐ b) False

Email -ID \*

kunal.deore20@pccoepune.org

11.Which of the following activities is not applicable to agile software development? \*

- ☐ a. Producing only the essential work products.
- ☐ b. Utilizing the strategy of incremental product delivery.
- ☐ c. Abolishing the project planning and testing.
- ☐ d. All of the above



Name of student \*

Kunal Ashok Deore

10.Which of the following activities of the generic process framework delivers a feedback report? \*

- ☒ a. Deployment
- ☐ b. Planning
- ☐ c. Modeling
- ☐ d. Construction

18.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

1.What are the characteristics of software? \*

- ☐ A. Software is developed or engineered; it is not manufactured in the classical sense.
- ☐ B. Software doesn't "wear out".
- ☐ C. Software can be custom built or custom build.
- ☒ D. All mentioned above



15.The ..... usually involves building a small version of the intended system prior to building a small version of the intended system prior to building the proposed completed system. \*

- ☐ A) waterfall approach
- ☒ B) prototyping approach
- ☐ C) spiral approach
- ☐ D) incremental approach

6.Select the option that suits the Manifesto for Agile Software Development\_\_\_\_\_? \*

- ☐ A. Individuals and interactions
- ☐ B. Working software
- ☐ C. Customer collaboration
- ☒ D. All of the mentioned

13.The spiral model was originally proposed by \*

- ☐ a) IBM
- ☒ b) Barry Boehm
- ☐ c) Pressman
- ☐ d) Royce



16.The ..... illustrates how process models can be combined with one another to good effects, such as by integrating prototyping in order to reduce risk. \*

- ☐ A) waterfall model
- ☒ B) spiral model
- ☐ C) prototyping model
- ☐ D) evolutionary development model

3.What is the major advantage of using Incremental Model ? \*

- ☐ A. Customer can respond to each increment
- ☐ B. Easier to test and debug
- ☐ C. It is used when there is a need to get a product to the market early
- ☒ D. Easier to test and debug & It is used when there is a need to get a product to the market early

14.Which one of the following models is not suitable for accommodating any change? \*

- ☐ A. Prototyping Model
- ☐ B. RAD Model
- ☐ C. Build & Fix Model
- ☒ D. Waterfall Model



Q. 22 Client interviews may not identify excitement features. \*

- ☒ a) True
- ☐ b) False

Q. 32 Which diagram in UML shows a complete or partial view of the structure of a modeled system at a specific time? \*

- ☐ a) Sequence Diagram
- ☐ b) Collaboration Diagram
- ☐ c) Class Diagram
- ☒ d) Object Diagram
- ☐ Other:

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Q. 19 Which of the following is false regarding the Kano Model of Customer Satisfaction? \*

- ☐ a) Identifying customer needs
- ☐ b) Determining functional requirements
- ☐ c) Concept development
- ☒ d) Inability in analyzing competitive product



Q. 21 In a needs analysis the customer may not have asked for basic features to be included in a design. \*

- ☒ a) True
- ☐ b) False

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2.SDLC stands for\_\_\_\_\_? \*

- ☒ A. Software Development Life Cycle
- ☐ B. System Development Life cycle
- ☐ C. Software Design Life Cycle
- ☐ D. System Design Life Cycle

5.What is a prototype ? \*

- ☐ A. Mini-model of existing system
- ☒ B. Mini-model of the proposed system
- ☐ C. Working model of the existing system
- ☐ D. None of these above



Q. 23 Which of the following statements explains portability in non-functional requirements ? \*

- ☒ a) It is a degree to which software running on one platform can easily be converted to run on another platform
- ☐ b) It is a degree to which software running on one platform can easily be converted to run on another platform
- ☐ c) The ability of the system to behave consistently in a user-acceptable manner when operating within the environment for which the system was intended
- ☐ d) None of the mentioned4

Q. 31 What are the four dimensions of Dependability ? \*

- ☐ a) Usability, Reliability, Security, Flexibility
- ☐ b) Availability, Reliability, Maintainability, Security
- ☒ c) Availability, Reliability, Security, Safety
- ☐ d) Security, Safety, Testability, Usability
- ☐ Other:

Q. 29 Consider a system where, a heat sensor detects an intrusion and alerts the security company.” What kind of a requirement the system is providing ? \*

- ☒ a) Functional
- ☐ b) Non-Functional
- ☐ c) Known Requirement
- ☐ d) None of the mentioned





Q. 26 The user system requirements are the parts of which document ? \*

- ☐ a) SDD
- ☒ b) SRS
- ☐ c) DDD
- ☐ d) SRD

12. 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. \*

- ☒ True
- ☐ False

Q.35 Which of the following statement is true? \*

- ☐ a) Use case diagram is a dynamic model of interaction between actors and product in a use case
- ☐ b) Use case Description is a static model of use case supported by a product
- ☐ c) All of the mentioned
- ☒ d) None of the mentioned
- ☐ Other:



Q.27 Which of the following is a non-functional requirement? \*

- ☐ a) The system enables users to place lunch orders.
- ☒ b) The system always responds to user clicks in less than one tenth of a second.
- ☐ c) The system displays a list of hotel vacancies.
- ☐ d) The system notifies the user when a new order arrives.

4. Selection of a model is based on \_\_\_\_\_? \*

- ☐ A. Requirements
- ☐ B. Development team & Users
- ☐ C. Project type and associated risk
- ☒ D. All of the mentioned

7. Agile Software Development is based on \_\_\_\_\_? \*

- ☐ A. Incremental Development
- ☒ B. Iterative Development
- ☐ C. Linear Development
- ☐ D. Both Incremental and Iterative Development



Q. 25 Which is one of the most important stakeholder from the following ? \*

- ☐ a) Entry level personnel
- ☐ b) Middle level stakeholder
- ☐ c) Managers
- ☒ d) Users of the software

Q. 24 A stakeholder is anyone who will purchase the completed software system under development ? \*

- ☐ a) True
- ☒ b) False

Q. 28 Which question does non-functional requirements answer? \*

- ☐ a) What does the system do?
- ☐ b) When does the system do it?
- ☐ c) Where does the system do it?
- ☒ d) How well does the system do it?



Q.36 A UML diagram that facilitates requirements gathering and interacts between system and external users, is called as \*

- ☐ a) . Flowchart diagram
- ☐ b) Sequence diagram
- ☒ c) Use case diagram
- ☐ d) Data flow diagram
- ☐ Other:

9.What is the major drawback of the Spiral Model? \*

- ☐ a. Higher amount of risk analysis
- ☒ b. Doesn't work well for smaller projects
- ☐ c. Additional functionalities are added later on
- ☐ d. Strong approval and documentation control

17.What is a Software ? \*

- ☐ a. Software is documentation and configuration of data
- ☐ b. Software is set of programs
- ☒ c. Software is set of programs, documentation & configuration of data
- ☐ d. None of the mentioned



Q.33 Choose the incorrect statement with respect to Non-Functional Requirement(NFR). \*

- ☐ a) Product-oriented Approach – Focus on system (or software) quality
- ☐ b) Process-oriented Approach – Focus on how NFRs can be used in the design process
- ☒ c) Quantitative Approach – Find measurable scales for the functionality attributes
- ☐ d) Qualitative Approach – Study various relationships between quality goals
- ☐ Other:

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