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Total No. of Questions : 5]

SEAT No. :

P6980

[5865] - 103

[Total No. of Pages : 4

First Year M.C.A. (Management)
IT13-OBJECT ORIENTED SOFTWARE ENGINEERING
(2020 Pattern) (Semester - I)



Time : 2½ Hours]

[Max. Marks : 50

Instructions to the candidates:

- 1) All questions are compulsory.
- 2) For MCQ select appropriate choice from options.
- 3) Draw neat diagrams wherever necessary.
- 4) Figures to right indicate full marks.

Q1) MCQ

[10]

- i) The _____ usually involves building a small version of the intended system prior to building the proposed system.
 - a) Waterfall model
 - b) Spiral model
 - c) Prototyping model
 - d) Incremental model
- ii) _____ model is best suited if requirements are easily understandable and defined.
 - a) Waterfall model
 - b) RAD model
 - c) Spiral model
 - d) None of the mentioned
- iii) Which phase of RUP is used to established business case for the system?
 - a) Transition
 - b) Inception
 - c) Construction
 - d) Elaboration
- iv) Which model is not suitable for accomodating any changes.
 - a) Spiral
 - b) RAD
 - c) Waterfall
 - d) Prototype
- v) Which of the following model follow a purely sequential approach?
 - a) RAD
 - b) Spiral
 - c) Prototype
 - d) Waterfall

P.T.O.

- vi) In software maintenance removing errors spotted by users is known as ____.
- Corrective
 - Adaptive
 - Preventive
 - Perfective
- vii) The incremental model is ____.
- a reasonable approach when well-defined requirements
 - good approach when a working case product quickly
 - not used for commercial projects
 - approach to use projects with large development teams
- viii) RAD model has ____ phases.
- 2
 - 3
 - 5
 - 6
- ix) Which one of the following is not a phase of prototyping?
- Quick design
 - Engineering
 - Coding
 - Refinement
- x) Which two models doesn't allow defining all requirements early in the cycle?
- Prototype & RAD
 - Spiral & Prototype
 - Waterfall & RAD
 - Waterfall & Spiral
- xi) The user system requirements are the part of ____
- SRS
 - Design document
 - FOD
 - Feasibility Report
- xii) Which of the following is a functional requirement?
- Maintainability
 - Portability
 - Robustness
 - None of the mentioned
- xiii) What characteristic of SRS is being depicted in "The product should have a good human interface".
- Consistent
 - Correct
 - Non-verifiable
 - Ambiguous
- xiv) Which of the following is/are included in SRS?
- External Interface
 - Performance
 - Functionality
 - All of the mentioned



Write SRS in IEEF format for event management system. The overall functioning is as follows.

- Booking of venue
- Assigning vendors
- Registration of vendors
- Generating quotations

Q3) Draw the use case and class diagram for a placement agency site which provides the facility for the candidate to register with their academic details, personal details & skill sets. Organizations can also register with their requirements. Searching facility is provided for searching job as well as candidate. [20]

OR

- a) Draw state transition diagram for vending machine placed at super market. [10]
- b) Draw Activity diagram for ordering grocery using mobile App. [10]

Q4) Attempt any two. [8]

- a) Explain extreme Programming (XP)
- b) What are 12 manifesto of Agile development?
- c) Write a difference between Agile and scrum.
- d) Write a short note on Feature Drive Development (FDD).

Q5) Design a user Interface for feedback of one day CET orientation program conducted by a reputed Institute. [4]

OR

Design UI for external examination form for SPPU. [4]

