

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

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

- xv) Providing keyboard shortcuts mostly addresses ____.
- a) Efficiency
 - b) Learnability
 - c) Attitude
 - d) Utility
- xvi) Informative feedback should be ____.
- a) Relevant
 - b) Meaningful
 - c) Clear
 - d) All of the mentioned
- xvii) What is role of quality review?
- a) Find mistake and reduce work
 - b) Risk Management
 - c) Cost calculation
 - d) None of the mentioned
- xviii) Which is not an Agile methodology?
- a) Scrum
 - b) Extreme programming
 - c) PMBOK3
 - d) Crystal
- xix) Agility refers to ____.
- a) Allotment
 - b) Analysis
 - c) Activeness
 - d) Advancement
- xx) In Agile model SDLC is carried out in the form of ____.
- a) Sprints
 - b) Documents
 - c) Modules
 - d) Phases

Q2) Prepare SRS in IEEE format for the following system [8]

A 'Swami Sweets' has decided to automate billing system. Shop has several serving counters. Following functionalities will be considered.

- RFID card will be used for entering details of purchasing at respective counter.
- Bill is prepared at cash counter after reading RFID card entries.
- Bill amount is accepted using cash, card or gpay mode.

OR

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

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

Q4) Attempt any two. [8]

- Explain extreme Programming (XP)
- What are 12 manifesto of Agile development?
- Write a difference between Agile and scrum.
- 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]

