Total No. of Questions : 5]

SEAT No. :

P-3341

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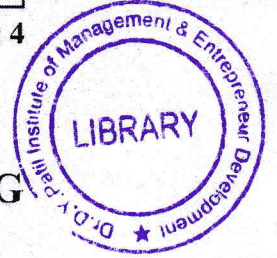
M.C.A. (Management)

IT-13 : 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 given options. Each carries ½ mark.*

3) *Draw neat diagrams wherever necessary.*

4) *Figures to right indicate full marks.*

Q1) MCQ :   **[10]**

i)   Object oriented systems are easier to _____.

A)   Adapt changing requirements

B)   Maintain and more robust

C)   Promote greater design and code reuse

D)   All of the mentioned

ii)   _____ model is not suitable for accommodating any changes.

A)   Waterfall   B)   Spiral

C)   RAD   D)   None of the above

iii) A model that is the demo implementation of the system.

A)   Prototype   B)   Waterfall

C)   Incremental   D)   Agile

iv) A spiral model has 2 dimensions ____ and ____.

A)   diagonal, angular   B)   radial, angular

C)   radial, perpendicular   D)   diagonal, perpendicular

v)   Which of the following models follow purely sequential approach?

A)   RAD   B)   Spiral

C)   Waterfall   D)   Prototype

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vi) _____ combine the features of waterfall model & prototype model.

    A) 4GL   B) Iterative

    C) RAD   D) Spiral model

vii) Which phase of RUP is used to establish a business case for the system?

    A) Inception   B) Transition

    C) Construction   D) Elicitation

viii) The incremental model is

    A) a reasonable approach when well-defined requirements

    B) good approach when a working core product quickly

    C) not used for commercial projects

    D) approach to use projects with large development teams

ix) RAD model has _____ phases.

    A) 2   B) 3

    C) 5   D) 6

x) RUP stands for _____.

    A) Rational Unified Process   B) Related Ultrasonic Process

    C) Rapid Unified Process   D) None of the above

xi) Requirements elicitation means _____

    A) Gathering of requirement

    B) Understanding of requirement

    C) Getting the requirements from client

    D) All of the mentioned

xii) Requirement Engineering process includes which at these steps?

    A) Feasibility study

    B) Software requirement specification

    C) Requirement Gathering

    D) All of the mentioned

xiii) Which is not a step of requirement engineering?

    A) Analysis   B) Elicitation

    C) Design   D) Documentation

xiv) Which of the following is not a type of user interface?

    A) Command language based   B) Menu based

    C) Efficiency based   D) Direct manipulation based

xv) Which of the following is golden rule for interface design?

    A) Place the user in control   B) Reduce user's memory load

    C) Consistances   D) All of the mentioned

xvi) What are the characteristics of ASD life cycle?

    A) Feature based   B) Iterative

    C) Risk driven   D) All of the mentioned

xvii) In Agile model SDLC is carried out in the form of _____.

    A) Documents   B) Phases

    C) Sprints   D) Modules

xviii) Agility refers to _____.

    A) Allotment   B) Advancement

    C) Analysis   D) Activeness

xix) Spike solution is used to design which part of story card

    A) Complex   B) Simple

    C) First   D) Last

xx) _____ is included in SRS?

    A) Staffing   B) Cost
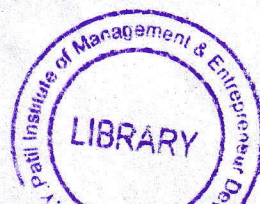
    C) Delivery Schedule   D) Design Constraints

Q2) "All about Bikes" is a company dealing in spare parts, would like to change the existing system to a webbased application. The company has their products listed on the website through which they receive enquiries. These enquiries are processed online. The delivery note and invoice are sent by mail.

Write SRS for above case as per IEEE format.   **[8]**

OR

UG college conducts lectures through Learning Management System (LMS) which has facility to add notes & reference material. College authority has decided to upgrade LMS by adding new features for conducting examination & generating result.

Write SRS in IEEE format for the above case.   **[8]**

Q3) a) SPPU has decided to conduct online entrance exam for M.Sc. Following activities are carried out in this process.

- Student has to enrolled on website with their personal and educational details.

- Centers are allotted to students.

- Students appear for test at their allocated centers.

- Interview schedule is prepared per selected students.

- Shortlisted students have to take admission by paying fees & submitting necessary documents.

Draw use case & class diagram for the above case. **[20]**

OR

b) i) Draw state transition diagram for semiautomatic washing machine.
[10]

ii) Draw activity diagram for ordering food through zomato. **[10]**

Q4) Write a short note on (Any 2) : **[8]**

a) Scrum

b) Extreame programing (XP)

c) Software Engineering Vs Web Engineering

d) Agile manifesto

Q5) Draw a UI for feedback form of 1 day technical workshop on Big data.**[4]**

OR

Draw a UI for booking CAB to travel within city. **[4]**

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