

Master's Degree Examination - Nov 2018
Semester – I

Class : I PG

MAJOR : MBA - IT Organization Administration

Time : 3 hrs

Max Marks : 60

Part A

10 * 12 = 5

Choose the best Answer

17MBMC06 - SYSTEM ANALYSIS AND DESIGN

- List the two advantages of Spiral Model
 - Development is fast and features are added in a systematic way
 - Documentation is more as it has intermediate phases
 - Customer feedback
 - Meeting the schedule or budget
- Can you tell why Agile model is Best?
 - It uses an incremental approach
 - Focuses on people and is more communication-oriented
 - Each phase is a result of the process of previous steps
 - The process should be repeatedly checked for consistency
- _____ define system attributes such as security, reliability, performance, maintainability, scalability, and usability.
 - functional requirement
 - non functional requirement
 - eliciting requirements
 - Managing Requirements
- _____ and _____ are different data models that are mainly used for organizing business data for proper communication between members of a group
 - Sequence flow diagram & Class diagram
 - Entity Relationship diagram & Class diagram
 - Class Diagram & Data Flow diagram
 - Entity Relationship diagram & Data Flow diagram
- Which normal form is adequate to usual database Design?
 - 2NF
 - 3NF
 - 4NF
 - 5NF
- Can you tell why regression Testing is important.
 - It is the act of retesting a product around an area where a bug was fixed
 - regression tests must be incorporated in the daily test cycle
 - It is mandatory
 - Software Efficiency Checker
- In an object-oriented system everything is an _____ and each is responsible for itself.
 - Entity
 - object
 - Interface
 - integer
- List the nature of work Abstraction and Encapsulation Principle in OOM.
 - Behaviour
 - Functionality exchanged
 - inherit properties
 - Capsuling data
- Why activity diagram is differentiated with State Chart Diagram?
 - functions without trigger(event) mechanism
 - involve concurrency and synchronization
 - Active & in Active
 - Predefined Task.
- When a program is write to respond in button clicks menu selections and opt to other actions is called as
 - Event driven Programming
 - Mouse Driven Programming
 - User driven Programming
 - Action Driven programming

Part B**Answer the following****Answer should not exceed 200 words or one page**

- 11 a. List out the advantages and disadvantages of Spiral model.
(or)
b. Why Agile is Best model in Software Industry. Describe it.
- 12 a. How the Requirement gathering is differentiate with several models of SDLC?
(or)
b. Compare ERD and Cardinality in software engineering process.
- 13 a. Differentiate Primary, Foreign, Candidate key.
(or)
b. Discuss about User acceptance and White box Testing.
- 14 a. Describe object oriented Model is best than non object oriented approach.
(or)
b. Distinguish between inheritance versus Aggregation.
- 15 a. What is class diagrams? Explain its connectivity with attributes.
(or)
b. List the characteristics of OOUI.

Part C**5*7=35****Answer the following****Answer should not exceed 600 words or three pages****Question No 20 is Compulsory**

- 16 a. How Rapid Application Development model used in mobile application development in efficient manner. Discuss.
(or)
b. Discuss about LMS and Explain how it works?
- 17 a. ~~Discuss~~ The Project development cost is less when we compare to develop the software in unstructured model. – Discuss.
(or)
b. Sketch a Data flow Diagram for Library Management system.
- 18 a. Explain the role of Database. Create a simple registration & Login table with primary key in database.
(or)
b. Discuss in detail the various levels of testing.
- 19 a. Write short notes on object oriented Principles.
(or)
b. Discuss about Automation in IT industries. How its emerged, Narrate list of applications?
20. **Compulsory:**

Consider a Credit card billing system that generates bills based on customer credit card usage data and send these bills out to the customers via email . There is an admin website where an admin can (after logging in) Choose the billing period (eg . Current month, Last month, or any arbitrary from date and to_date) and then click a button to generate bills. The bills are formatted as simple HTML tables that are mailed to all the relevant customers in the DB for the given time period . Each bill contains details like total dues and minimum payment amount and the payment due date.

- i. Create a context flow diagram, Class Diagram.
- ii. Create a simple application to informate the customer.
