

**Master's Degree Examination – November 2018
Semester – I**

Class: I PG

Time : 3 Hours

Major: Business Administration

Max. Marks: 60

17MBAC06 – IT Business Modelling

Part A

10 x ½ = 5

Choose the correct answer

1. The _____ is defined as a set of activities performed across the organization creating as output of value to the customers.
(a) Development process (b) Business Process
(c) Quality Process (d) Customer focus
2. A task of developing a technical blueprint and specifications for a solution that fulfills the business requirements is undertaken in the following phase of the system development process.
(a) System initiation (b) System implementation
(c) System analysis (d) System design
3. Standards are provided by
(a) Standards organization (b) User groups
(c) Computer vendors (d) All of the above
4. Which of the following is part of a static view of information?
(a) Logical data model (b) Data flow model
(c) Information process model (d) Meta data
5. _____ the degree to which a module performs one and only one function.
(a) Cohesion (b) Coupling (c) Data design
(b) None of the above
6. _____ is also known as clear box testing.
(a) Black Box Testing (b) White Box Testing
(c) Unit Testing (d) Regression Testing
7. ERD stands for
(a) Enterprise Relationship Diagram (b) Environmental Relationship Diagram
(c) Entity Relationship Diagram (d) Equity Relationship Diagram
8. UML depicts information systems as a collection of
(a) Processes (b) Data (c) Information (d) Objects
9. An analysis process which involves analyzing and designing of system from an object-oriented programming is termed as
(a) Object Analysis (b) Object Oriented Analysis
(c) Overall Oriented Analysis (d) System Analysis
10. The three software parts of a GUI program are :
(a) Window, Button, Mice (b) GUI components, Graphics, code
(c) GUI components, Event listeners, Application code
(d) Frame, Code, Events

Part B

5 x 4 =20

Answer the following

Answer should not exceed 200 words or one page

11. (a) State the advantages of System Development Life Cycle.
(Or)
11. (b) How modeling works in the unified process? Explain.
12. (a) Elucidate the various components of data flow diagram.
(Or)
12. (b) What is an IEEE standard in software engineering? List the various types of Standards.
13. (a) Enumerate the significance of Black Box Testing.
(Or)
13. (b) Write a note on Boundary value analysis.
14. (a) What is object oriented analysis and design?
(Or)
14. (b) Write a short note on sequence diagram.
15. (a) State the elements of collaboration diagram.
(Or)
15. (b) Mention the benefits of GUI.

Part C

5 x 7 =35

Answer the following

Answer should not exceed 600 words or three pages

Question No 20 Case is Compulsory

16. (a) Describe the various phases of SDLC.
(Or)
16. (b) Write a note on Agile software development.
17. (a) What is DFD? Draw a DFD for student university enrollment.
(Or)
17. (b) Explain the necessity of ER diagram. With the symbols used for representing entities and relationship draw the ER diagram for employee management system.
18. (a) Elaborate the various types of software testing methodologies.
(Or)
- (b) Enumerate the steps involved in system analysis and design.
19. (a) What is UML? Explain the class diagram with example.
(Or)
- (b) Elucidate the characteristics of OOUI.

(12) Case is Compulsory

Assuming that you are the team lead for development of an information system viz, purchase management information system for mannar & Co Pvt Ltd. Visualize the scenario and answer the following :

- a. List down the functionality you would plan to provide.
- b. Model the information system with an ER diagram.
- c. Explicate the profitability for your organization upon successful delivery of the system
- d. Draw a use case diagram.
