

**MCQ Section**

Subject: Cloud Computing  
Semester: I  
Year : ME-I

Course Code: MEITDLO1013  
Branch: Information Technology  
Marks :40

- 1] All questions are Compulsory
- 2] Assume suitable data wherever required.

**Q1. Attempt all questions. [20\*2=40M]**

- 1) Which of the following technologies distributes the workload of heavy loaded machine into other lightly loaded machine?
  - a) Load Balancing
  - b) Load performing
  - c) Sniffing
  - d) Load scheduling
  
- 2) Which of the following category of virtualization provides a Vitrual Machine Environment (VME) that completely simulates the underlying hardware small and midsize organization
  - a) Para virtualization
  - b) Hardware-assisted virtualization
  - c) Operating System virtualization
  - d) Full Virtualization
  
- 3) Which of the architectural style is further subdivided into Batch sequential and Pipes & filters?
  - a) Data Flow Architecture
  - b) Call and Return Architecture
  - c) Data Centered Architectures
  - d) Shared Architecture
  
- 4) What is incorrect among the following?
  - a) Make use cases that uniform in size and complexity
  - b) Organize use cases by actor, problem domain categories or solution categories
  - c) Use cases can last for more than one session
  - d) Achieve a stakeholder goal in a use case
  
- 5) Which of the following is not a user interface design process?
  - a) User, task, and environment analysis and modelling
  - b) Interface design
  - c) Knowledgeable, frequent users
  - d) Interface validation
  
- 6) Which of these are followed in case of software design process?
  - a) Analysis occurs at start of product design with a product idea
  - b) Analysis occurs at the end of engineering design with the SRS

- c) Product design resolution produces the design document
  - d) Engineering design resolution produces the SRS
- 7) The PERT in project management means program evaluation and \_\_\_\_\_ technique.
- a) resource
  - b) reconciliation
  - c) reconsideration
  - d) review
- 8) COTS product reuse means
- a) Class and function libraries that implement commonly used abstractions are available for reuse
  - b) Shared components are woven into an application at different places when the program is compiled
  - c) Large-scale systems that encapsulate generic business functionality and rules are configured for an organization
  - d) Systems are developed by configuring and integrating existing application systems
- 9) Which of the following is not an advantages of software reuse?
- a) lower costs
  - b) faster software development
  - c) high effectiveness
  - d) lower risks
- 10) Which of the following describes a message-passing taxonomy for a component-based architecture that provides services to clients upon demand?
- a) SOA
  - b) EBS
  - c) GEC
  - d) QOS
- 11) Agile Software Development is based on
- a) Incremental Development
  - b) Iterative Development
  - c) Linear Development
  - d) Both Incremental and Iterative Development
- 12) Which one of the following is not a fundamental activity for software processes in software engineering ?
- a) Software Verification
  - b) Software Validation
  - c) Software design and implementation
  - d) Software evolution
- 13) Arrange the steps in order to represent the conducting of Wideband Delphi Technique.
- i. Conduct a group discussion
  - ii. Conduct another group discussion
  - iii. Present experts with a problem
  - iv. Collect expert opinion anonymously
  - v. Iterate until consensus is reached

vi. Feedback a summary of result to each expert

- a) i, iii, ii, iv, v, vi
- b) iii, i, ii, iv, v, vi
- c) i, ii, iii, iv, vi, v
- d) iii, i, iv, vi, ii, v

14) How many steps are involved in Feature Oriented Domain Analysis (FODA) ?

- a) Two
- b) Three
- c) Four
- d) Five

15) Which model in system modelling depicts the static nature of the system ?

- a) Behavioral Model
- b) Context Model
- c) Data Model
- d) Structural Model

16) Which of the following diagram is not supported by UML considering Data-driven modeling ?

- a) Activity
- b) Data Flow Diagram (DFD)
- c) State Chart
- d) Component

17) \_\_\_\_\_ classes are used to create the interface that the user sees and interacts with as the software is used.

- a) Controller
- b) Entity
- c) Boundary
- d) Business

18) How is generalization implemented in Object Oriented programming languages?

- a) Inheritance
- b) Polymorphism
- c) Encapsulation
- d) Abstract Classes

19) Which of the following early OOD methods incorporates both a “micro development process” and a “macro development process.” ?

- a) Booch method
- b) Rumbaugh method
- c) Wirfs-Brock method
- d) Coad and Yourdon method

20) Which of the following is not included in Architectural design decisions?

- a) type of application
- b) distribution of the system
- c) architectural styles
- d) testing the system

## Descriptive Section

**Attempt all questions. [40M]**

### **Q2. Attempt the following (Any 4 each for 5 Marks)**

- A) what are the advantages of Mobile cloud computing
- B) Give the difference between cloud computing and mobile cloud computing.
- C) Explain cloud mobile media application
- D) Explain the significance of resource allocation.
- E) What is offloading explain in detail

### **Q3. Attempt the following (Any 2 each for 10 Marks)**

- A) Write the characteristics of cloud computing. Explain the different types of cloud computing deployment models with examples
- B) Define mobile cloud computing. Explain the architecture of mobile computing
- C) What is meant by green mobile cloud computing? Explain energy saving in mobile cloud infrastructure