SRM INSTITUTE OF SCIENCE & TECHNOLOGY

**SRM Institute of Science and Technology**
**College of Engineering and Technology**
**School of Computing**

Mode of Exam
**OFFLINE-SET C**

## DEPARTMENT OF COMPUTING TECHNOLOGIES

SRM Nagar, Kattankulathur – 603203, Chengalpattu District, Tamilnadu

**Academic Year: 2022-2023** **(ODD/EVEN): ODD**

**Test: CLAT-2**
**Course Code & Title: 18CSE356T - DOS**
**Year & Sem: III & V**

**Date: 14-10-2022**
**Duration: 1 Hour**
**Max. Marks: 50**

**Course Articulation Matrix:** *(to be placed)*

**Part – A**
**( 20 x 1 = 20 Marks)**

**Instructions: Answer all**

| Q. No | Question | Marks | BL | CO | PO | PI Code |
|---|---|---|---|---|---|---|
| 1. | The _____ layer provides dialog control to keep track of which party is currently talking.<br>a. Application<br>b. Presentation<br>**c. Session (A)**<br>d. Transport | 1 | 1 | 2 | 2 | 1.6.1* |
| 2. | The session layer is responsible for _____<br>a. Concerned with the meaning of bits in the message<br>b. Notifies receiver that message contains a particular record in a certain format<br>**c. Provides dialog control and synchronization facilities (A)**<br>d. Detects and corrects data transmission errors | 1 | 1 | 2 | 2 | 1.6.1* |
| 3. | Which of the following is not about TCP?<br>a) Connection-oriented<br>b) Process-to-process communication<br>c) Transport layer protocol<br>**d) Unreliable service (A)** | 1 | 2 | 2 | 2 | 1.6.1* |
| 4. | The client server model has _____ levels of protocols<br>**a. Three (A)**<br>b. Two<br>c. Five<br>d. Four | 1 | 2 | 2 | 2 | 1.6.1* |
| 5. | The packet type that is used by the client to probe to see if the server has crashed<br>**a. AYA**<br>b. IAA<br>c. ACK<br>d. TA | 1 | 1 | 2 | 2 | 1.6.1* |
| 6. | Which type of parameter passing is preferable in RPC<br>a. Call-by-reference<br>**b. Call-by-value**<br>c. Call by address | 1 | 1 | 2 | 2 | 1.6.1* |
| 7. | For a server to deregister with the binder, what are the necessary inputs given by the server?<br>a. Name, version<br>**b. Name, version, unique id**<br>c. Name , Version, Handle, unique id<br>d. Name , services | 1 | 2 | 2 | 2 | 1.6.1* |
| 8. | In remote procedure call, the client program must be bound with a small library procedure called .....<br>a. Server stub | 1 | 2 | 2 | 2 | 1.6.1* |

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|---|---|---|---|---|---|---|
| | b. Marshalling<br>c. Client hub<br>**d. Client stub (A)** | | | | | |
| 9. | The _____ is an example of connectionless transport layer protocol<br>**a. UDP (A)**<br>b. TCP<br>c. X.25<br>d. IP | 1 | 2 | 2 | 2 | 1.6.1* |
| 10. | In machine. Process addressing used by client–server model, 243.4 or 4@243 denotes _____.<br>**a) Process 4 on machine 243 (A)**<br>b) Process 243 on machine 4<br>c) Process 4 on machine 243.4<br>d) Process 4 on machine 243.4 | 1 | 2 | 2 | 2 | 1.6.1* |
| 11. | When the server receives the AYA packet and it is still alive, its reply packet is _____.<br>a. UA<br>**b. IAA (A)**<br>c. ACK<br>d. TA | 1 | 2 | 2 | 2 | 1.6.1* |
| 12. | A _____is a piece of code that translates parameters sent between the client and server during a remote procedure call in distributed computing.<br>**a. Stub (A)**<br>b. Skeleton<br>c. Orphan<br>d. Zombies | 1 | 2 | 2 | 2 | 1.6.1* |
| 13. | Before a client stub sends an RPC message, it makes a log entry telling what it is about to do. After a reboot, the log is checked and the orphan is explicitly killed off.<br>**a. Extermination (A)**<br>b. Reincarnation<br>c. Gentle reincarnation<br>d. Expiration | 1 | 2 | 2 | 2 | 1.6.1* |
| 14. | In client server model the SEND and RECEIVE primitives are called as ..... primitives.<br>a. blocking<br>b. non-blocking<br>**c. data transfer(A)**<br>d. error control | 1 | 2 | 2 | 2 | 1.6.1* |
| 15. | In Passive Time Server Centralized Algorithm, when the reply is received at the client's node, its clock is readjusted to<br>a) T1+(T1 – T0)/2<br>b) T0+(T2 – T1)/2<br>c) T2+(T1 – T0)/2<br>**d) T+(T1 – T0)/2 (A)** | 1 | 2 | 3 | 3 | 1.6.1* |
| 16. | In Cristian's algorithm, the time server is active.<br>**a. True (A)**<br>b. False | 1 | 2 | 3 | 3 | 1.6.1* |
| 17. | If timestamps of two events are same, then the events are _____<br>**a) concurrent (A)**<br>b) non-concurrent<br>c) monotonic<br>d) non-monotonic | 1 | 2 | 3 | 3 | 1.6.1* |
| 18 | Number of messages required in Ricart Agrawala Algorithm is?<br>**a. 2(N-1) (A)**<br>b. 3(N-1)<br>c. 3(N+1)<br>d. $2(N^2-1)$ | 1 | 2 | 3 | 3 | 1.6.1* |

| | | | | | | |
|---|---|---|---|---|---|---|
| | A clock is said to be non-faulty if the following condition holds:<br>**a. $1+\rho \leq dc/dt \geq 1-\rho$**<br>**b. $1-\rho \leq dc/dt \geq 1+\rho$**<br>c. $1+\rho \geq dc/dt \leq 1-\rho$<br>d. $1+\rho \leq dc/dt \geq \rho$<br>$$1 - \rho \leq dC/dt \leq 1 + \rho \quad (A)$$ | 1 | 2 | 3 | 3 | 1.6.1* |
| **20** | In Computer Clocks _____ is used to keep track of the oscillations of the quartz crystal.<br>a. Constant Register<br>**b. Counter Register (A)**<br>c. Clock tick<br>d. Drift Rate | 1 | 2 | 3 | 3 | 1.6.1* |