**Unit 3: REPLICATION AND FAULT TOLERANCE**

**1] \_\_\_\_\_\_\_\_\_\_\_ is a set of technologies for copying and distributing data and database objects from one database to another.**  
a) Replication  
b) Database Mirroring  
c) Log Shipping  
d) None of the mentioned

**2] A replica set member becomes \_\_\_\_\_\_\_\_\_ when its replication process falls so far behind that the primary overwrites oplog entries the member has not yet replicated**.  
a) stale  
b) state  
c) dead  
d) secondary

**3] For most replica sets, the hostnames in the \_\_\_\_\_\_\_\_\_ field never change.**  
a) tag  
b) host  
c) rs  
d) none of the mentioned

**4] How many types of replication is provided by SQL Server**?  
a) 2  
b) 3  
c) 4  
d) 5

**5] Point out the wrong statement :**a) Log shipping and mirroring allows to maintain complete database redundancy  
b) Replication allows to maintain some part of the database (a set of required objects) at users location  
c) Replication is object level low availability feature  
d) All of the mentioned

**6] Which of the following is disadvantage of replication?**  
a) Improved performance  
b) To move data closer to the user  
c) Easy maintenance  
d) None of the mentioned

**9] Which of the following makes data available for replication?**a) Article  
b) Publisher  
c) Distributor  
d) Subscription

**10] What type of fault remains in the system for some period and then disappears?**a) Permanent  
b) Transient  
c) Intermittent  
d) All of the mentioned

**11] All fault-tolerant techniques rely on**  
a) Integrity  
b) Dependability  
c) Redundancy  
d) None of the mentioned

**12] It is imperative for a communicating processes to reach consistent recovery points to avoid the \_\_\_\_\_\_\_\_\_ effect, with backward error recovery mechanism.**  
a) Static  
b) Dynamic  
c) Domino  
d) Whirlpool

**13] A fault creates one or more**

1. Latent error
2. Mistake
3. Failure
4. None of above

**14]  “A client is assigned all user presentation tasks and the processes associated with data entry”.Which option supports the client’s situation?**  
a) Distributed logic  
b) Distributed presentation  
c) Remote presentation  
d) All of the mentioned

**15] The architecture of a replica set affects the set’s \_\_\_\_\_\_\_\_\_ and capability.**  
a) scalability  
b) capacity  
c) performance  
d) all of the mentioned

**16] \_\_\_\_\_\_\_\_\_ for a replica set is the number of members that can become unavailable and still leave enough members in the set to elect a primary.**a) Fault tolerance  
b) Reliability  
c) Security  
d) None of the mentioned

**17] \_\_\_\_\_\_\_\_\_ sets also allow the routing of read operations to specific machines.**  
a) Field  
b) Read  
c) Tag  
d) All of the mentioned

**18] The common mechanism used to find latent failure in memory modules:**a) Sniffing  
b) Scrubbing  
c) Swapping  
d) Paging

**19] Which one of the property is NOT a requirement for Fault Tolerance?**  
a) Fault Containments  
b) Fault Isolation  
c) Dynamic Recovery  
d) Fail Safe

**20] Replication should be used when which of the following exist?**

a) When transmission speeds and capacity in a network prohibit frequent refreshing of large tables.

b) When using many nodes with different operating systems and DBMSs and database designs.

c) The application's data can be somewhat out-of-date.

d) All of the above.