

Q1 :

B -

C – setup part , assertion part , call part

D – Errors : 1 – interface misunderstanding 2- interface misuse 3- timing errors

Guidelines : 1- use stress testing in message passing system

2- design test causes component to fail

3- test pointer parameters with null pointers

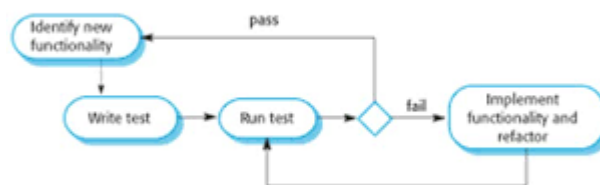
Q2 :

A – regression testing : testing ensure that the previous working code isn't broken due to change , and use auto framework as Junit cause the test set to auto run as changes is made

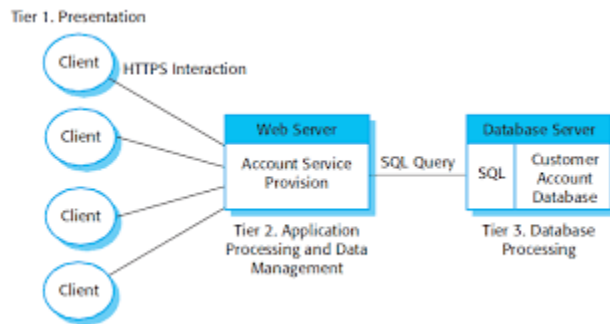
B-

Thin client	Fat client
Presentation layers implemented on client and other layers implemented on server	Application processing implemented on client and data management implemented on server
Used when legacy systems are migrated to client server architecture	More processing is delegated to client as application processing is locally executed

C -



D-



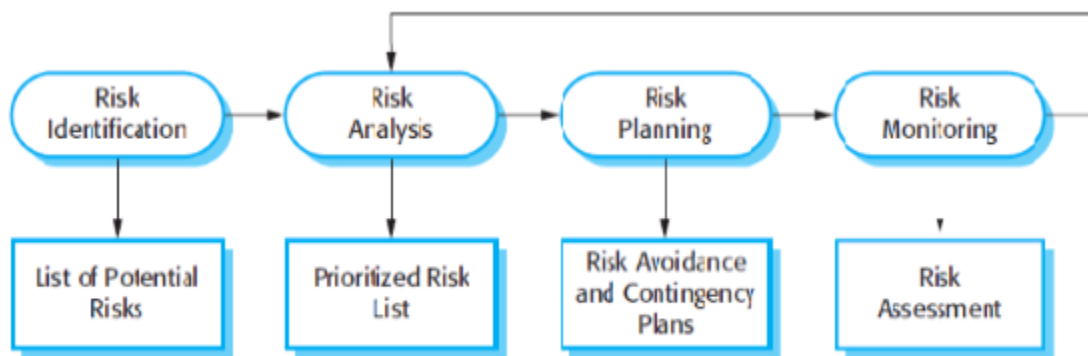
E- The most appropriate reliability metric is Probability of Failure on demand (POFOD). This is the probability that the system will respond correctly when a request is made for service at a given point in time.

Q3 :

A- 1- proposal writing 2- project planning 3- project costing 4- project monitoring  
5- report writing 6- personnel selection

B- project plan is developed based on the available information at that moment. Thus, at the begin time of the project, we develop the plan without knowing enough uncertain matters that relevant to the project. When the project progress, there are more matters relevant to the project become available.

C -



**Fig 1. Risk management process**

D - Management activities such as proposal writing, project planning

and communication skills ;

Programming skills are distinct from these so it does not follow that good programmers can re-orient their abilities to be good managers.

Q4 :

- 1- false
- 2- false
- 3- true
- 4- false
- 5- false
- 6- false
- 7- false
- 8- true
- 9- true
- 10- true
- 11- true
- 12- true

Q5 :

- 1- Availability
- 2- Availability
- 3- Deliverables
- 4- Master slave
- 5- Milestones
- 6- Project
- 7- Redundancy
- 8- Reliability
- 9- Reporting
- 10- Two tier
- 11- Unit
- 12- Unit