1. What is the need for agile methods?
2. Why the agile software process models got such name?
3. What is Agile manifesto?
4. Explain the guidelines of Agile manifesto.
5. What is Agile software development?
6. Name some popular agile methods.

1. What is pair programming?
2. Who is driver and who is navigator in pair programming? Will these persons do the same work always or they change their roles?
3. Write the advantages and disadvantages of pair programming.
4. Who among the two gains the ownership in pair programming?
5. Write the rules of pair programming.
6. How many times a day the pairs will change their roles in pair programming?

1. Why scrum got such name?
2. What is scrum?
3. What are the things they discuss in daily scrum?
4. How was the daily scrum conducted?
5. What are called sprints?
6. What happens during sprints? How long it lasts?
7. Draw the scrum framework and explain the working of scrum.
8. Name the 3 members of a scrum team and explain their role.
9. Do the scrum master works with the team?
10. Name the scrum events and explain.
11. Name the scrum events that are present inside sprint.
12. How long does the daily scrum meeting lasts?
13. What happens in sprint review?

1. What is the need for version control system?
2. What is version control system?
3. Write the other names of VCS.
4. Write the features of VCS.

1. When the new version of software does arise?
2. Write the uses of VCS.
3. Will the programmers make changes in the main copy directly in VCS?
4. Do the programmers have to use the same system while working with VCS?
5. Does all the edits done by different coders are integrated in VCS without losing any data?
6. What will the VCS do when two coders conflict with edits of same file?
7. What happens in VCS when there is a system crash?
8. What happens inVCS when a coder comes to know that he did a mistake?

1. Explain the terminology of VCS.
2. What is a repository?
3. When does the individual developer's code made known to others in the team?
4. What does 'commit' means?
5. What is the other name for repository?
6. What is a version?
7. Name the 2 types of database history.
8. Differentiate linear history and branching history with figure.

9. What is ‘update’ in VCS.

1. Name the 2 types of VCS.
2. Explain the 2 types of VCS with figure.
3. Differentiate centralized VCS and distributed VCS.
4. Differentiate commit and update.
5. Differentiate push and pull.
6. When can the team members see the changes made by a developer in centralized VCS?
7. When can the team members see the changes made by a developer in distributed VCS?
8. Name some popular VCS and mention it as centralized or distributed.
9. Write the advantages and disadvantages in distributed VCS.

1. Expand GIT.
2. What is GIT?Write about its origin.
3. Write the useful features of GIT.
4. Write the advantages and disadvantages of GIT.
5. Explain the terminology of GIT.
6. How to install GIT in windows?
7. Name the basic and advanced operations of GIT.
8. Draw the working structure of GIT.
9. Explain the basic operations of GIT.
10. Explain the advanced operations of GIT.

1. What is the need for business use case diagram?
2. What is a use case diagram?
3. What is the main purpose of use-case diagrams?
4. What are the 2 categories of use cases?
5. Differentiate the 2 categories of use cases.
6. Write the categories of business use cases.
7. Can there be a business use case without any relationship with actor.
8. Write the reasons for structuring the business use-case model.
9. Write the characteristics of a good business use-case model.
10. List the elements of Use-case diagram.
11. Define the following with respect to use case diagram with symbol and example.
    (i) Actor (ii) Use-case (iii) Communication/Association (iv) Boundary of system/Subject (v) relationships/Stereotypes
12. What are the 3 types of relationships in use cases.
13. Define the 3 types of relationships in use cases with example.
14. Differentiate <<include>> and <<exclude>> relationships in use-cases.
15. Can the generalization relationship occur only between use cases?
16. Write the rules for creating Use-case diagrams.
17. Write the guidelines for the elements of use-case diagrams.
18. Draw Use-case diagram for the following:
    (i)Shopping app (ii)Banking app (iii) airline ticket booking system (iv)Train reservation system (v) Stock exchange
19. Answer for Qn.2 and Qn.3 of Type B part in Pg:199 in Book.