1. Knowledge check

1. Write your name and surname

2. What is a Software ?
   a) Software is set of programs
   b) Software is documentation and data
   c) None of the mentioned
   d) Software is set of programs, documentation and data

3. Which of these statements are correct?
   a) Software engineering is practical branch of Computer science
   b) Software engineering is systematic application of engineering approaches to development of software
   c) both a) and b)
   d) neither a) nor b)

4. What are true statements about Waterfall model comparing to agile methods:
   a) you can get more reliable cost estimates for following phases
   b) you can do better cooperation with many involved parties in large scale projects
   c) changes are limited and increasingly costly in following stages of the project
   d) all statements above are true

5. What are true statements about V-model?
   a) V-model is extension of Waterfall model
   b) Verification process can be expressed as query "Are you building the right thing?"
   c) Validation process can be expressed as query ""Are you building it right?"
   d) all statements above are true

6. Which of the following life cycle model can be chosen if the development team has less experience on similar projects?
   a) RAD
   b) Spiral
   c) V-model
   d) Waterfall

7. Agile methods seem to work best when team members have a relatively high skill level:
   a) True
   b) False

8. In agile development it is more important to build software that meets the customers' needs today than worry about features that might be needed in the future:
   a) False
   b) True

9. If a software production gets behind schedule, you can add more programmers and catch up:
   a) False
   b) True

10.   Select the option that suits the Manifesto for Agile Software Development
    a) Customer collaboration

b) Working software
c) Individuals and interactions
d) All of the mentioned

11. Which two of the following models will not give the desired outcome if user participation is not frequent?
a) Waterfall and V-model
b) RAD and Waterfall
c) RAD and Prototyping
d) Spiral and Waterfall

12. The longer a fault exists in software:
a) All of below
b) the less likely it is to be properly corrected
c) the more costly it is to detect and correct
d) the more tedious its removal becomes

13. Scrum sprint length usually is:
a) 1 day
b) 2-4 weeks
c) 1-2 months
d) 3-5 days

14. What are true statements about Incremental and Spiral models?
a) In both changing requirements is relatively easy
b) Both uses iterative approach in development
c) Incremental approach focuses on small delivery steps, while Spiral focuses on risk management
d) All of above

15. A stakeholder is anyone who will purchase the completed software system under development:
a) True
b) False

16. Identify the disadvantage of Spiral Model:
a) Strong approval and documentation control
b) High amount of risk analysis
c) Doesn't work well for smaller projects
d) Additional Functionality can be added at a later date

17. What are attributes of good quality software?
a) Software maintainability & functionality
b) Software development
c) Software maintainability
d) Software functionality

18. The SRS document is also known as _____ specification:
a) black-box
b) white-box
c) none of the mentioned

    d) grey-box

19.   Who is responsible for Concept of Operations:
    a) Business/Project owner
    b) Contractor/System developer
    c) Infrastructure provider
    d) all involved parties

20.   Concept of Operations describes following things:
    a) problems of existing situation and benefits of new solution
    b) rationale for changes, description benefits and concerns for new solution
    c) description and concerns on existing situation and possible solution, rationale for changes
    d) analysis and comparison of existing situation and new solution