Chapter 1

1. Reuse-based software engineering is a software engineering strategy where the development process is geared to reusing existing software.
   a) True
   b) False

2. The open source movement has meant that there is a huge reusable code base available at
   a) free of cost
   b) low cost
   c) high cost
   d) short period of time

3. Consider the example and categorize it accordingly, "A pattern-matching system developed as part of a text-processing system may be reused in a database management system".
   a) Application system reuse
   b) Component reuse
   c) Object and function reuse
   d) None of the mentioned

4. COTS stands for
   a) Commercial Off-The-Shelf systems
   b) Commercial Off-The-Shelf states
   c) Commercial Off-The-System state
   d) None of the mentioned

5. COTS product reuse means
   a) Class and function libraries that implement commonly used abstractions are available for reuse
   b) Shared components are woven into an application at different places when the program is compiled
   c) Large-scale systems that encapsulate generic business functionality and rules are configured for an organization
   d) Systems are developed by configuring and integrating existing application systems

6. .NET are specific to which platform?
   a) Java

b) Mac-OS
c) Microsoft
d) LINUX

7. Which of the following is a generic structure that is extended to create a more specific subsystem or application?
a) Software reuse
b) Object-oriented programming language
c) Framework
d) None of the mentioned

8. "An ordering system may be adapted to cope with a centralized ordering process in one company and a distributed process in another." Which category the example belong to?
a) Process specialization
b) Platform specialization
c) Environment specialization
d) Functional specialization

9. What are generic application systems that may be designed to support a particular business type, activity, or sometimes a complete enterprise?
a) COTS-solution systems
b) COTS-integrated systems
c) ERP systems
d) Both COTS-solution and COTS-integrated systems

10. Which of the following is not an advantages of software reuse?
a) lower costs
b) faster software development
c) high effectiveness
d) lower risks

11. ERP stands for
a) Effective Reuse Planning
b) Enterprise Resource Planning
c) Effective Research Planning
d) None of the mentioned

12. Which framework class include standards and classes that support component communication and information exchange?

a) System infrastructure frameworks
b) Middleware integration frameworks
c) Enterprise application frameworks
d) MVC

13. Which of the following is not a benefit of software reuse?
   a) Standards compliance
   b) Increased Reliability
   c) Reduced Process risk
   d) Maintaining a component library

14. In which of the following language the frameworks will not work?
   a) C#
   b) Ruby
   c) PHP
   d) Java

15. Which frameworks support the development of system infrastructures such as communications, user interfaces, and compilers?
   a) Middleware integration frameworks
   b) System infrastructure framework
   c) Enterprise application frameworks
   d) Web application frameworks

16. The MVC pattern was originally proposed in the 1980s as an approach to
   a) Web application frameworks
   b) Middleware integration frameworks
   c) Web application frameworks
   d) GUI design

17. MVC framework includes
   a) Observer pattern
   b) Strategy pattern
   c) Composite pattern
   d) All of the mentioned

18. Which category the following statement belongs,"Classes to create and manage sessions are usually part of a WAF"?
   a) Session management
   b) Security

c) User interaction
d) Database support

19. Which framework's applications are difficult to deal with?
    a) MVC pattern
    b) Web application frameworks
    c) Debugging framework
    d) None of the mentioned

20. Which category the following statement belongs,"Frameworks don't usually include a database but rather assume that a separate database such as MySQl"?
    a) Session management
    b) Security
    c) User interaction
    d) Database support

21. Which option supports the statement:"Most web frameworks now provide AJAX support"?
    a) Session Management
    b) Security
    c) User interaction
    d) Database support

22. Frameworks are an effective approach to reuse, but are _____ to introduce into software development processes.
    a) difficult
    b) expensive
    c) unreliable
    d) difficult and expensive