

Academic Year (2020-21)

Department of Information Technology (Under Graduate Course) B.Sc.IT

Question Bank

Semester – V

Software Project Management (USIT501)

Advanced Learner

1. What does SMART stand for?

- A. Spectacular, Measurable, Actionable, Resourced, Timely
- B. Specific, Measurable, Achievable, Relevant, Timely
- C. Suitable, Measurable, Actionable, Reviewed, Timely
- D. Standardized, Measurable, Actionable, Resourced, Timely

2. A _____ report helps in determining the validity or scope of the entire project or a part of the project.

- A. Quality
- B. Feasibility Study
- C. Completion
- D. Cost Estimate

3. Change management is also known as ____

- A. Release Management
- B. Scope Management
- C. Configuration Management
- D. Quality Management

4. Who suggests W5HH Principle?

- A. Boehm
- B. Stallman
- C. Henry
- D. Bob

5. Which is not the main project attributes listed below?

- A. Cost
- B. Duration
- C. Effort
- D. Feedback

6. What are the four framework activities found in Extreme Programming (XP) process model

- A. Analysis, Design, Coding, Testing
- B. Planning, Analysis, Design, Coding
- C. Planning, Analysis, Design, Testing
- D. Planning, Design, Coding, Testing

7. Choose the correct option from given below:

- A. Prototyping Model facilitates reusability of components
- B. RAD Model facilitates reusability of components
- C. Spiral Model facilitates reusability of components
- D. Iterative model follows only cycle.

8. Main objective of Kanban

- A. Visualize the workflow
- B. Define Requirement
- C. Show Daily Scrum
- D. Sprint Backlog

9. Who is responsible for Scrum Model?

- A. Developer
- B. Tester
- C. Product Owner
- D. Architecture

10. How much week is required to develop the sprint?

- A. 1 to 3 Weeks
- B. 2 to 4 Weeks
- C. 5 to 6 Weeks
- D. 2 to 5 Weeks

Slow Learner

1. CPM stands for

- A. Critical Planning Method
- B. Crucial Path Method
- C. Critical Path Method
- D. Crucial Path Management

2. Which of the following is NOT related to Network Planning Methods?

- A. GANTT Chart
- B. CPM
- C. PERT
- D. Precedence Network

3. GANTT Chart is NOT used for

- A. Scheduling
- B. Staffing
- C. Resource Allocation
- D. Deciding Priorities

4. Which of the following is most useful to decompose big projects into smaller modules or tasks?

- A. PERT Chart
- B. GANTT Chart
- C. Task Network
- D. Work Breakdown Structure

5. In PERT Chart Dummy activity is required if:

- A. Two or more activities have same ending events
- B. Two or more activities have identical starting and ending events
- C. Two or more activities have different ending events
- D. Two or more activities have same starting events

6. Which of the following is NOT a report in which the review data is captured?

- A. Review log
- B. Review charter
- C. review preparation log
- D. review summary report

7. Which technique is best suited for long duration projects to assign earned value?

- A. the 0/100 technique
- B. 75/25 technique
- C. milestone technique
- D. 50/50 technique

8. D. System Development Life Cycle

- A. schedule
- B. cost
- C. time
- D. earned value

9. Control of changes and documentation is the responsibility of the

- A. configuration librarian
- B. project manager
- C. reviewer
- D. developer

10. The following is required to run the software on different operating systems

- A. baseline
- B. version
- C. revision
- D. variant

Assignment

1. _____ means that the efforts of each participant are added to get the final result.

- A. Additive task
- B. compensatory tasks
- C. disjunctive tasks
- D. conjunctive tasks

2. _____ tasks are where progress is governed by the rate of the slowest performer.

- A. Additive task
- B. compensatory tasks
- C. disjunctive tasks
- D. conjunctive tasks

3. More complex and often requiring a degree of creativity

- A. Structured
- B. Unstructured
- C. Semi Structured
- D. Discrete

4. In Conventional software developments projects, a typical approach to improving _____ is to introduce more documentation.

- A. motivation

- B. techniques
- C. coordination
- D. planning

5. The _____ process starts with systems architecture and planning phase.

- A. Scrum
- B. Agile
- C. XP
- D. Egoless Programming

Internet of Things(USIT502)

Questions : Advanced Learner

1. A _____ is a device that detects and responds to some type of input from the physical environment.

- a. Sensor
- b. Actuator
- c. Repeater
- d. Amplifier

2. Internet of Things first became popular in the year _____.

- a. 1998
- b. 1999
- c. 2000
- d. 2001

3. A _____ is a device that converts an electrical signal to a physical output.

- a. Sensor
- b. Actuator
- c. Transistor
- d. Repeater

4. _____ are designed to operate at a particular level in the networking stack.

- a. Protocols
- b. Procedures
- c. Guidelines
- d. Circuits

5. Technological advances progress with enabling and controlling the _____ of people.

- a. Advancement
- b. Movement
- c. Changes
- d. Development

6. _____ develops as a movement of goods from a place where they are plentiful and cheap to one where they are rare and valuable.

- a. Trade
- b. Changes
- c. Business

d. Information

7. Information becomes key, too—hence, the development of_____ to communicate technology to others.

- a. Gesture
- b. Language
- c. Human being
- d. IOT

8. The invention of_____ makes the communication more important and allows human lives to be preserved in words by and about writers from the ancient philosophers and poets to the present day.

- a. Language
- b. Communication
- c. Technology
- d. Writing

9. Nowadays we have broadband subscriptions providing always-on connectivity to the_____.

- a. Computers
- b. Internet
- c. Cities
- d. Routers

10. _____provides fairly plug-and-play networking experience but most home routers today also offer Wi-Fi which removes the need of running cables everywhere.

- a. Objects
- b. Wired Ethernet
- c. Browsers
- d. Hardware

Questions : Slow Learner

1. IP Protocol uses which method of switching?

- a. Circuit switching
- b. Packet switching
- c. Message switching
- d. Both circuit and packet switching

2. What is the Port address length in TCP?

- a. 8 bit
- b. 12 bit
- c. 14 bit
- d. 16 bit

3. Which of the following is not a protocol of the network layer?

- a. IP
 - b. ICMP
 - c. HTTP
 - d. IGMP
4. A Class B address starts with which bits?
- a. 00
 - b. 10
 - c. 110
 - d. 111
5. What is the class of address 227.78.18.29?
- a. Class A
 - b. Class B
 - c. Class C
 - d. Class D
6. What is the size of the header in a UDP Packet?
- a. 4
 - b. 6
 - c. 8
 - d. 16
7. Which of the following functions are performed by UDP?
- a. Process to process communication
 - b. Host to host communication
 - c. End to end delivery
 - d. Node to node communication
8. What is the orientation of TCP protocol?
- a. Message oriented
 - b. Block oriented
 - c. Stream oriented
 - d. Both message and stream oriented
9. Who translates the internet domain and host names to IP address?
- a. Network time protocol
 - b. Domain name system
 - c. Routing Protocol
 - d. Network time protocol
10. What is the host name from http://www.yahoo.com ?
- a. http
 - b. yahoo
 - c. .com
 - d. www

Assignments

1. API stands for _____
 - a. Application packet interface

- b. Application program interchange
 - c. Application program interface
 - d. Application packet interchange
2. Web services frameworks such as _____ or Ruby on allow easy prototyping of the online component
- a. Dot net
 - b. Python
 - c. C++
 - d. Pearl
3. _____ services such as Amazon Web Services mean that such solutions can scale easily with use as they become more popular.
- a. Framework
 - b. Cloud
 - c. Web
 - d. Internet
4. _____ may collaborate with designers on installations with traditional craftspeople on printmaking.
- a. Artist
 - b. Photographer
 - c. Designer
 - d. Developer
5. Hobbyist _____ are a diverse group encompassing various technical and artistic interests and skills.
- a. Architect
 - b. Hackers
 - c. Developers
 - d. Artist

Advanced Web Programming(USIT503)

Questions : Advanced Learner

1. A Constructor.....
- a) is used to create objects
 - b) must have the same name as the class it is declared within
 - c) all of the above
 - d) maybe overloaded
2. A delegate in C# defines.....
- a) a Indian Government representative
 - b) a class that encapsulates methods
 - c) a means of passing arrays into methods
 - d) a substitute for an inherited method
3. Web.config file is used...
- a) Configures the time that the server-side code behind module is called
 - b) To store the global information and variable definitions for the application
 - c) To configure the web server
 - d). To configure the web browser

4. How do you register a user control?
- a) Add Tag prefix, Tag name
 - b) Add Source, Tag prefix
 - c) Add Src, Tagprefix, Tagname
 - d) Add Source, Source prefix
5. _____ allows you to store any type of data in memory on the server.
- a) Pageing
 - b) Cookies
 - c) Session-state
 - d) StateBag
6. If A Developer Of ASP.NET Defines Style Information In A Common Location. Then That Location Is Called As
- a) Master Page
 - b) Theme
 - c) Customization
 - d) Design
7. The is a series of distinct pieces of information seperated by semicolons.
- a) string
 - b) query
 - c) connection
 - d) connectionstring
8. If you are using the DataSet and you have to display the data in sorted order what will you do?
- a) Use Sort method of DataTable
 - b) Use Sort method of DataSet
 - c) Use DataView object with each sort
 - d) Use datapaging and sort the data.
9. What are the steps to create a DataTable programmatically?
- a) Instantiate a new DataTable and add DataColumn objects to the DataTable.Columns collection.
 - c) Run the Data Source Configuration Wizard.
 - c) Instantiate a new DataSet object.
 - d) Instantiate a new DataAdapter object.
10. Which of the following is TRUE about Windows Authentication in ASP.NET?
- a) Automatically determines role membership
 - b) Role membership determined only by user programming
 - c) ASP.NET does not support Windows Authentication
 - d) ASP.Net does not support Authorization

Questions : Slow Learner

1. CLR full form is _____.
- a) Java Virtual Machine
 - b) Common Language Runtime
 - c) Common Type System

d) Common Language Specification

2. All C# applications begin execution by calling the _____ method.

- a) Class()
- b) Main()
- c) main()
- d) Namespace()

3. A _____ is an identifier that denotes a storage location.

- a) Constant
- b) Reference type
- c) Variable
- d) Object

4. Which programming model should you implement if you want to separate your server-side code from your client-side layout code in a Web page?

- a) Single-file model
- b) Code-behind model
- c) Inline model
- d) Client-server model

5. _____ uses a hidden field that ASP.NET automatically inserts in the final, rendered HTML of a web page.

- a) Caption
- b) View state
- c) Button state
- d) Application State

6. The _____ is a dictionary collection, which means every item is stored in a separate “slot” using a unique string name.

- a) StateBag
- b) Variable
- c) Datatype
- d) View

7. Which control is required inside a content page to reference ContentPlaceHolder control inside the master page?

- a) Content control on a content page.
- b) ContentPlaceHolder on a content page.
- c) Placeholder control is required on content page.
- d) None of the above.

8. When you add a theme folder, what will be the name of that folder ?

- a) Theme
- b) App_Code
- c) App_Theme
- d) App_Themes

9. -----IS technology used to design asp.net program for data access

- a) ADO SQL ACCESS

- b) ADO.NET
- c) ORACLE
- d) SQL

10. TO design WEB APPLICATION WE NEED

- a) SQL
- b) DBMS
- c) RDBMS
- d) ORACLE

Assignments

1. _____ element in the web.config file to run code using the permissions of a specific user
 - A) < credential> element
 - B) < authentication> element
 - C) < authorization> element
 - D) < identity> element
2. Which of the following is the default authentication mode for IIS?
 - A) Windows
 - B) Anonymous
 - C) Basic Authentication
 - D) Profile
3. _____ is the default authentication type provided for Asp.Net.
 - A) Form Authentication
 - B) Windows Authentication
 - C) Passport Authentication
 - D) Profile Authentication
4. Which event is not there for Login control
 - A) LoggingIn
 - B) LoggedIn
 - C) LoginError
 - D) LoginStatus
5. Which ADO .Net class provide disconnected environment?
 - A) DataReader
 - B) DataSet
 - C) Command
 - D) SQLCmd

Artificial Intelligence(USIT504)

Questions : Advanced Learner

1. The search which helps to find states in opponent to one other
 - A. Breadth First Search
 - B. Depth First Search
 - C. Adversarial Search
 - D. Local Search

2. In MINMAX MAX will choose the state with
- A. With greater heuristics
 - B. With less heuristics
 - C. With equal heuristics
 - D. With no heuristics
3. The test which is true at the leaf nodes of Game Tree
- A. Final test
 - B. Solution test
 - C. Terminal test
 - D. Path test
4. The value of utility function will be positive when
- A. MAX wins
 - B. MIN wins
 - C. Draw Game
 - D. MAX lose
5. The value of utility function will be negative when
- A. Draw Game
 - B. MAX wins
 - C. MIN wins
 - D. MIN lose
6. The first order logic for "All birds Fly"
- A. $\forall x \text{Bird}(x) \rightarrow \text{Fly}(x)$
 - B. $\forall x \text{Fly}(\text{Bird}) \rightarrow \text{Fly}(x)$
 - C. $\forall x \text{Bird}(x) \rightarrow \text{Fly}(\text{Bird})$
 - D. $\forall x \text{Bird}(x) = \text{Fly}(x)$
7. $\forall x \text{man}(x) \rightarrow \text{drink}(x, \text{coffee})$
- A. There are all x where x is a man who drink coffee
 - B. All are men
 - C. All are coffee
 - D. All are men with coffee
8. Some boys play cricket is represented in First Order Logic as
- A. $\exists x \text{boys}(x) \rightarrow \text{play}(x, \text{cricket})$.
 - B. $\exists x \text{boys}(y) \rightarrow \text{play}(x, \text{cricket})$.
 - C. $\exists x \text{boys}(y) \rightarrow \text{play}(z, \text{cricket})$.
 - D. $\exists x \text{boys}(x) \rightarrow \text{play}(y, \text{cricket})$.
9. First Order Logic Contains
- A. Constants
 - B. Predicates
 - C. Functions

- D. Connectives, Constants, Predicates, Functions
10. The process where knowledge engineer works with domain experts
- A. Knowledge Representation
 - B. Knowledge Graph
 - C. Knowledge Acquisition
 - D. Knowledge Process

Questions : Slow Learner

11. Artificial Intelligence helps to build machines that are
- A. Soft
 - B. Manual
 - C. Autonomous
 - D. Hard
12. When a system does right thing it is termed as
- A. Smart
 - B. Expert
 - C. Fast
 - D. Rational
13. Turing test was proposed in year
- A. 1950
 - B. 1955
 - C. 1960
 - D. 1965
14. The branch of Artificial Intelligence which helps for computation
- A. Economics
 - B. Mathematics
 - C. Language
 - D. Neuroscience
15. The branch of Artificial Intelligence which helps for thinking
- A. Psychology
 - B. Linguistics
 - C. Economics
 - D. Mathematics
16. _____ is the process of looking to sequence of actions
- A. Problem
 - B. Location
 - C. Search
 - D. Cost
17. The lowest path among all the solutions is referred as
- A. Smallest Path
 - B. Basic Path
 - C. Path

- D. Optimal Path
- 18. The execution algorithm performance will depend on
 - A. Time Complexity
 - B. Space Complexity
 - C. Optimality
 - D. Completeness
- 19. The maximum number of successors in a tree is known as
 - A. Depth
 - B. Branching Factor
 - C. Height
 - D. Successors
- 20. The uninformed search in which exploration happens only in one direction is
 - A. Breadth First Search
 - B. Depth First Search
 - C. Unidirectional Search
 - D. IDDFS

Assignments

- 21. PDDL stands for
 - A. Planning Domain Definition Language
 - B. Planning Degree Domain Language
 - C. Planning Domain Distort Language
 - D. Plan Declare Define Language
- 22. The properties of Backward State Space Search
 - A. It is hard
 - B. It is complete
 - C. It is sound and complete
 - D. It is hard and complete
- 23. The algorithm developed by Avrim Blum and Merick Furst
 - A. PlanG
 - B. GRAPHPLAN
 - C. SEARCHPLAN
 - D. TREEPLAN
- 24. GRAPHPLAN takes input planning problem expressed in form of
 - A. STEPS
 - B. STRIPS
 - C. ROTATION
 - D. VISITS
- 25. A clause which contains at least one positive literal is known as
 - A. Truth Clause

- B. Single Clause
- C. Main Clause
- D. Horn Clause

Enterprise JAVA(USIT506)

1. Which interface is used for Request and Response from the following and it should be protocol specific.

- a)HttpServletRequest and HttpServletResponse
- b)HttpRequest and HttpResponse
- c)ServletRequest and ServletResponse
- d)Request and Response

2. Which html tag can be used to send the request to the servlet?

- a)<action>
- b)<form>
- c)<input>
- d)<a>

3. Which packages provide different interfaces and classes for servlet API which should be protocol specific?

- a)Javax.servlet
- b)Javax.servlet.http
- c)java.servlet
- d)java.servlet.*

4. Which class is protocol-independent in Servlet API?

- a)GenericServlet
- b)HttpServlet
- c)HttpServletRequest
- d)HttpServletResponse

5. Which one is correct for the lifecycle of a servlet?

- a. Servlet class is loaded
- b. Servlet instance is created
- c. loading, creation, init,Service,destroy method is invoked
- d. Loading, creation

6. Which of the following methods is used to accept an attribute in servlets using HTTP Session object?

- a) getAttribute
- b) alterAttribute
- c) updateAttribute
- d) setAttribute

7. Which method is valid from the following to establish the connection with the specific url, username and password in a Driver Manager class?

- a. public static void registerDriver(Driver driver)
- b. public static void deregisterDriver(Driver driver)
- c. public static Connection getConnection(String url)
- d. public static Connection getConnection(String url,String userName,String password)

8. When the control is passed from one servlet to another servlet without coming back to the server and involving a network is known as _____

- a.Servlet Request
- b.Servlet Response
- c.Servlet Chaining
- d.Servlet Session

9. When RequestDispatcher interface exchange the information among different servlets over the network within a Java application is known as _____

- a.Servlet Collaboration
- b.Servlet Chaining
- c.Servlet Dispatching
- d.Servlet Request

10. Which of the following methods, forwards a request from a one servlet to another resource on the server.

- a.public void forward(ServletRequest request, ServletResponse response)
- b.public void include(ServletRequest request, ServletResponse response)
- c.public void send(ServletRequest request, ServletResponse response)
- d.public void receive(ServletRequest request, ServletResponse response)

Slow Learners

1. How to get the object of RequestDispatcher, which of the following is correct?

- a.getRequest()
- b.getResponse()
- c.getRequestDispatcher()
- d.getInclude()

2. _____ are text files placed on the client computer by the application which is meant for keeping various information used for tracking reasons by the server.

- a.Cookies.
- b.Session
- c.URL Rewriting
- d.XML Format

3. _____ type of Cookie is valid for only a single session.

- a.Persistent Cookie
- b.Non Persistent Cookie
- c.Session
- d.URL Rewriting

4. _____ package can be used to access various functionalities of cookies.

- a. javax.servlet.http.*
- b. javax.servlet.*

- c. `java.servlet.http.*`
- d. `java.servlet.*`

5. _____ will create a cookie with a specific name and value.

- a. `Cookie(String name, String value)`
- b. `Cookie()`
- c. `Cookie(String name=value)`
- d. `Cookie(String value=name)`

6. Give method to set maximum age of Cookie from the following:

- a. `public void setMaxAge(int expiry)`
- b. `public void setMaxAge()`
- c. `public void setMax(int expiry)`
- d. `public void setMax()`

7. HTTP and Web Servers are both considered as _____.

- a. Stateful
- b. Stateless
- c. URL Rewriting
- d. Hidden form fields

8. Not more than _____ of data can be contained by a single cookie.

- a. 4kb
- b. 8kb
- c. 16 kb
- d. 32 kb

9. Which of the following is correct from the given statements for `getSession(boolean)` method:

- a. Returns the current `HttpSession` associated with this request or, if there is no current session and `create` is true, returns a new session.
- b. Returns the current session associated with this request, or if the request does not have a session, creates one.
- c. Returns the past `HttpSession` associated with this request or, if there is no current session and `create` is true, returns a new session.
- d. Returns the past session associated with this request, or if the request does not have a session, creates one.

10. _____ is a technique used to maintain the state of a user.

- a. Http Protocol
- b. Session Tracking
- c. Servlet Request
- d. Servlet Response

Assignments

1. _____ is a technology to Servlet which allows the mixing of dynamic and static web contents.

- a. Servlet
- b. JSP
- c. EJB
- d. JSF

2. JSP technology is consisting of the following feature _____

- a. WORA
- b. Platform Dependent
- c. Inefficient
- d. Inconvenient

3. In MVC Architecture, JSP work as:

- a. Model
- b. Controller
- c. View
- d. Presentation Layer

4. In JSP, Initialization is done by calling the _____ method.

- a. jspDestroy()
- b. jspInit()
- c. jspService()
- d. jspInitialization

5. A server side comments is of the form:

- a. `<%-- comments --%>`
- b. `<!-- comments ...`
- c. `<%= ----- %>`
- d. `<%@ directive attribute="value" %>`