

# TYBSCIT SEMESTER V ATKT EXAM

## Sample Question Bank

### Software Project Management

1. \_\_\_\_\_ are people who have interest in the project.
  - a. Managers
  - b. Directors
  - c. Stakeholders
  - d. Citizens
2. The software project management life cycle starts with \_\_\_\_ phase.
  - a. Planning
  - b. Execution
  - c. Closure
  - d. Initiation
3. Net present value and internal rate of return are collectively known as \_\_\_\_\_ techniques
  - a. Cash inflow
  - b. Discounted cash flow
  - c. Cash outflow
  - d. Cash flow forecast
4. Which of the following is not the component of the project scope document?
  - a. Project Charter
  - b. Scope Description
  - c. Project Acceptance Criteria
  - d. Project Constraints
5. \_\_\_\_\_ Process checks the scope for accuracy and completeness.
  - a. The scope verification
  - b. the scope definition
  - c. the scope change control
  - d. the scope initiation
6. The project \_\_\_\_\_ defines all the project work, activities and deliverables that enable it to accomplish the projects MOV.
  - a. Scope Verification
  - b. Scope Planning
  - c. Scope change control
  - d. Scope Initiation
7. The phase with which project management life cycle starts before software development life cycle.
  - a. Planning
  - b. Execution
  - c. Initiation
  - d. closure
8. Main objective of Kanban
  - a. Visualise the workflow

- b. Define Requirement
  - c. Show Daily Scrum
  - d. Spin backlog
9. What is Pair Programming?
- a. It is a programming process, wherein a programmer writes the program twice just in case.
  - b. A development method, where two developers work on the same workstation.
  - c. It is an algorithm that finds pair numbers in a set of integers.
  - d. It is a way of rectifying errors in programs by looking for pairs of errors.
10. Which development model would be appropriate for development of simple and well-understood application?
- a. Spiral Development Model
  - b. Waterfall model
  - c. Kanban
  - d. Atern development model
11. Estimation of size for a project is dependent on
- a. Cost
  - b. Time
  - c. Schedule
  - d. FP
12. Which of the following is TRUE for Critical Path
- a. It is a path having maximum number of Tasks
  - b. It is shortest Path in terms of Time
  - c. It is the longest Path in terms of Time
  - d. It is the path with largest amount of float
13. Lagged Activities are used when
- a. Two activities can be started in parallel provided there is a delay between 2 activities
  - b. when activities can be completed later
  - c. When activities are not required
  - d. when activities are very important
14. Risk Exposure =
- a. checklist & brain storming
  - b. strategies & brain storming
  - c. checklist & staffing
  - d. staffing & scheduling
15. PERT Model requires \_\_\_\_\_ Time Estimates for each activity
- a. Two
  - b. One
  - c. Three
  - d. Four
16. Which one of the following would equal to EV/PV
- a. SPI
  - b. SV
  - c. CPI
  - d. CV
17. Tenders are requested from suppliers in
- a. memoranda of agreement
  - b. meetings of agreement

- c. supplier of agreement
  - d. sender of agreement
18. Which one of the following is the reason for cognitive strain during stress?
- a. Anxiety
  - b. Lacking Concentration
  - c. Loosing touch with friends
  - d. Restlessness
19. The \_\_\_\_\_ process starts with a systems architecture and planning phase.
- a. Scrum
  - b. Agile
  - c. XP
  - d. Egoless Programming
20. In the process of postimplementation project review, \_\_\_\_\_ is not a reason for collecting the data concerning the errors detected at various stages of the development
- a. To fine-tune the error-detection techniques used
  - b. To determine which techniques worked well, so that more effort can be allocated to both
  - c. To determine which techniques did not work well, so that less effort can be allocated to them
  - d. To fix accountability for the errors committed at each stage of development
21. Premature closing of project can be done for the given reasons except \_\_\_\_\_
- a. Lack of resources
  - b. Changed business need of the customer
  - c. A lot of money is allocated
  - d. Changes to regulatory policy
22. \_\_\_\_\_ is provided with an authority to assign work to the team members and to monitor their work.
- a. The chief programmer
  - b. Team structure
  - c. Matrix format
  - d. functional format
23. \_\_\_\_\_ is the process that helps in developing personal skills and methods by estimating ,planning and tracking performance against plans ,and provides a defined process which can be tuned by individuals.
- a. Personal Software process
  - b. Six Sigma
  - c. Test automation
  - d. Reliability Metrics
24. The ease with which it is possible to locate and fix bugs in the software product is termed as \_\_\_\_\_
- a. Correctness
  - b. Maintainability
  - c. Portability
  - d. Reusability
25. \_\_\_\_\_ is the model which allows for negative reliability growth to reflect the fact that when a repair is carried out, it may introduce additional errors.
- a. Jelinski and Moranda Model
  - b. Goel-Okutomo Model

- c. Littlewood and Verall's Model
- d. Software Development Model

## Advance Web Programming

1.The .Net framework provides multiple language support using the feature Known as \_\_\_\_\_

- A) Common Type System
- B) Common Language Runtime
- C) Garbage Collector
- D) Managed Code

2.The \_\_\_\_\_ is the common platform that integrates code and components from multiple .Net programming languages.

- A)Common Type System
- B)Common Language Runtime
- C)Garbage Collector
- D)Common Language Specification

3.During runtime the Common Language Runtime uses Just In Time compiler which converts the \_\_\_\_\_ code into native code.

- A) Source
- B) Microsoft Intermediate Language
- C)Program
- D)Common code

4.Most of the functionality of the .NET framework classes resides in the namespace called \_\_\_\_\_.

- A)Data
- B)Service
- C)System
- D)Drawing

5. \_\_\_\_\_ is the execution engine for .Net applications and serve as the interface between .Net applications and the operating system.

- A) Common Language Specification

- B) Garbage Collector
- C) Common Language Runtime
- D) Common Type System

6. ASP.NET tags always begin with the prefix\_\_\_\_\_.

- A) Input type
- B) <a>
- C) asp:
- D) <div>

7. \_\_\_\_\_ property displays a text message when the user hovers the mouse above the control.

- A) ToolTip
- B) Access Key
- C) Controls
- D) Font

8. \_\_\_\_\_ are used heavily in the .NET class library to group a set of related constants.

- A) Units
- B) Enumerations
- C) Fonts
- D) Colors

9. \_\_\_\_\_ control is a server-side equivalent of the <ul> (unordered list) and <ol> (ordered list) elements.

- A) ListBox
- B) DropDownList
- C) BulletedList
- D) CheckBoxList

10. \_\_\_\_\_ property indicates whether a list box allows single selection or multiple selections.

- A) SelectedIndex
- B) SelectedValue
- C) SelectionMode
- D) Items

11. Select the correct statement about an Exception?

- A) It occurs during loading of program
- B) It occurs during Just-In-Time compilation
- c) It occurs at run time
- d) All of the mentioned

12. Which of these keywords is not a part of exception handling?

- A) try
- B) catch
- C) thrown
- D) finally

13. In C#.NET if we do not catch the exception thrown at runtime then which of the following will catch it?

- A) compiler
- B) CLR
- C) linker
- D) loader

14. Which of the following is the Object Oriented way of handling run-time errors?

- A) onError
- B) Exception
- C) Errorcode
- D) Heresult

15. In C#.NET, an exception is?

- A) Compile time error
- B) logical error
- C) runtime error
- D) syntax error

16. 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

17. What are the three primary kinds of parameters?

A)Input, Integer, String

B) Integer, String, DateTime

C) Integer, String, DateTime

D)Input, Output, InputOutput

18. When would you typically use an Input parameter?

1. When the parameter value is created based on user input.

2. When the parameter is used to send data from the application to the database.

3. When the command is set to execute a statement with a WHERE clause.

4. When the parameter value is passed to an INSERT statement

A)1, 2

B)1, 2, 3

C)2, 3

D)1, 4

19. How do you execute multiple SQL statements using a DataReader?

A) Call the ExecuteReader method of two Command objects and assign the results to the same instance of a DataReader.

B) Call the ExecuteReader method of a single Command object twice

C) Set the Command.CommandText property to multiple SQL statements delimited by a semicolon.

D) Set the Command.CommandType property to multiple result sets.

20. What should you do to access the returned tabular data after starting execution of a command that runs asynchronously?

1. Call the EndExecuteNonQuery method.

2. Call the EndExecuteReader method.

3. Wait for the StatementCompleted event to fire and iterate through the DataReader.

4. Wait for the StatementCompleted event to fire, call the EndExecuteReader method, and then iterate through the DataReader.

A)1, 2

B) 1, 2, 3

C)2, 3

D)2, 4

21. What server supports AJAX ?

- A) SMTP
- B) WWW
- C) HTTP
- D) SMTP

22. What is the recommended method for securing sensitive connection string information?

- A) Encrypting the data in the application configuration file
- B) Using a code obfuscator
- C) Using Integrated Security (Windows Authentication)
- D) Querying the user for his or her credentials at run time

23. The most popular way to materialize XML documents is to use:

- A) DTD.
- B) XSLT.
- C) HTML.
- D) SOAP

24. XML Schemas consist of:

- A) properties and methods.
- B) elements and attributes
- C) structure and data
- D) tables and relationships.

25. Using AJAX we can make our web page

- A) more interactive and faster
- B) easy to connect web page with server
- C) more dynamic
- D) less dynamic



# Enterprise Java

1. Which of the following is the format for EJB deployment descriptor files?

- A) XML
- B) XSL
- C) HTML
- D) Java

2. Which of these functions is not a part of the servlet lifecycle?

- A) Checking if an instance of servlet exists or not
- B) Invoking the service method of the servlet
- C) Shutting down the servlet
- D) Pausing the servlet for a given period of time

3. How is the dynamic interception of requests and responses to transform the information done?

- A servlet container
- B servlet config
- C servlet context
- D servlet filter

4. What are scripting languages?

- A) The programming languages that pre decide the web page content
- B) The programming languages that are simpler and offer same protection
- C) The programming languages that trade off simplicity for protection
- D) None of the mentioned

5. The doGet() method in the example extracts values of the parameter's type and number by using

- A) request.getParameter()
- B) request.setParameter()
- C) response.getParameter()
- D) response.getAttribute()

6. Request is instance of which class?

- A) Request
- B) HttpRequest
- C) HttpServletRequest

D) ServletRequest

7. The connection variable is set of type

- A) HttpSession
- B) HttpServletRequest
- C) HttpURLConnection
- D) HttpServletResponse

8. Which method is used to specify before any lines that uses the PrintWriter?

- A) setPageType()
- B) setContentType()
- C) setContentType()
- D) setResponseType()

9. Where are cookies placed in computer?

- A) Browser
- B) Drive
- C) List
- D) Folder

10. Which package is provided by Servlet API to work with cookies?

- A) javax.servlet
- B) javax.servletrequest
- C) javax.servletresponse
- D) javax.servlet.http.Cookie

11. How constructor can be used for a servlet?

- A) Initialization
- B) Constructor function
- C) Initialization and Constructor function
- D) Setup() method

12. Which of the following code is used to get an attribute in a HTTP Session object in servlets?

- A) session.getAttribute(String name)
- B) session.alterAttribute(String name)
- C) session.updateAttribute(String name)
- D) session.setAttribute(String name)

13. How is the dynamic interception of requests and responses to transform the information done?

- A) servlet container
- B) servlet config
- C) servlet context
- D) servlet filter

14. Which page directive should be used in JSP to generate a PDF page?

- A) contentType
- B) generatePdf
- C) typePDF

D) contentPDF

15. Which tag should be used to pass information from JSP to included JSP?

- A) Using <%jsp:page> tag
- B) Using <%jsp:param> tag
- C) Using <%jsp:import> tag
- D) Using <%jsp:useBean> tag

16. "request" is instance of which one of the following classes?

- A) Request
- B) HttpRequest
- C) HttpServletRequest
- D) ServletRequest

17. Which of the following is not a feature of Beans?

- A) Introspection
- B) Events
- C) Persistence
- D) Serialization

18. Which attribute is used to specify initialization method?

- A) init
- B) init-method
- C) initialization
- D) initialization-method

19. Which attribute is used to specify destroy method?

- A) destroy
- B) destroy-method
- C) destruction
- D) destruction-method

20. How to specify autowiring by name?

- A) @Qualifier
- B) @Type
- C) @Constructor
- D) @Name

21. Which of the following is true about SessionFactory object in hibernate?

- A) SessionFactory object configures Hibernate for the application using the supplied configuration file
- B) SessionFactory object allows for a Session object to be instantiated
- C) The SessionFactory is a thread safe object
- D) All options mentioned for this question

22. Which method is used to update the state of the given instance from the underlying database?

- A) Session.store()
- B) Session.keep()
- C) Session.update()

D) Session.load()

23. HQL stands for

- A) Hibernate Queue Language
- B) Hibernate Query Language
- C) Hypertext Query Language
- D) HighSpeed Query Language

24. Which method is easy for Java Programmer to add criterion?

- A) SQL
- B) HCQL
- C) HQL
- D) AQL

25. In hibernate, QBC stands for

- A) Query By Criteria
- B) Query By Call
- C) Query By Code
- D) Query By Column

## **Artificial Intelligence**

1. The characteristics of the computer system capable of thinking, reasoning and learning is known is

- A. machine intelligence
- B. human intelligence
- C. artificial intelligence
- D. virtual intelligence

2. The succes of an intellignet behaviour of a system can be mesured with \_\_\_\_\_

- A. System Test
- B. Turing Test
- C. Intelligent Test
- D. Machine Test

3. Which one of the following application is not of AI

- A. Education
- B. Telsa
- C. Siri
- D. Netflix

4. Which of the following areas can not contribute to build an intelligent system?

- A. Neuron science
- B. Maths
- C. Computer Science
- D. Geology

5. In which year John McCarthy coined the term Artificial Intelligence?

- A. 1956
- B. 1957

- C. 1965
  - D. 1959
6. How many types of agents are there in artificial intelligence?
- A. 1
  - B. 2
  - C. 3
  - D. 4
7. \_\_\_\_\_ choose action based on only current percept
- A. Robot
  - B. Simple Reflex Agent
  - C. Smart Agent
  - D. Sensor
8. Hill climbing sometimes called \_\_\_\_\_ because it grabs a good neighbor state without thinking ahead about where to go next.
- A. Needy local search
  - B. Heuristic local search
  - C. Greedy local search
  - D. Optimal local search
9. To solve a problem which 2 phase of formulation it should pass?
- A. Goal,Start
  - B. Goal,Problem
  - C. Path,Goal
  - D. Path,Problem
10. To solve problem using AI, Process consist of \_\_\_\_ steps.
- A. 2
  - B. 4
  - C. 5
  - D. 6
11. Which one of the followings is not a part of process for solving problem using AI
- A. Defining the problem
  - B. Analysing the problem
  - C. Implemenation
  - D. sensorless planning
12. A\* search strategy comes under \_\_\_\_\_.
- A. Uninformed search
  - B. Blind Search
  - C. Informed Search
  - D. Classical Search
13. In alpha beta pruning beta stands for\_\_\_\_\_
- A. Max
  - B. Min
  - C. sum
  - D. avg

14. In chess the outcome win is represent with value

- A. 1
- B. 0
- C. 2
- D. 4

15. A zero-sum game is (confusingly) defined as one where the total payoff to all players is the \_\_\_\_\_ for every instance of the game

- A. Equal
- B. Unequal
- C. Zero
- D. Undefined

16. In MINIMAX algorithm, the role played by Max is

- A. AND
- B. OR
- C. NOT
- D. NAND

17. The space complexity of minimax algorithm is

- A.  $O(bm)$
- B.  $O(b^m)$
- C.  $O(d)$
- D.  $O(b)$

18. In alpha beta search,  $\alpha$  is associated along with \_\_\_\_ path

- A. DFS
- B. MIN
- C. MAX
- D. BFS

19. States where the game has ended are called \_\_\_\_\_

- A. End Test
- B. Terminal Test
- C. Goal test
- D. Term Test

20. General algorithm applied on Game tree for making decision of win/lose is \_\_\_\_\_

- A. DFS
- B. Heuristic Search
- C. Greedy Search
- D. MIN/MAX Search

21. A knowledge base is a set of \_\_\_\_\_

- A. Formule
- B. Values
- C. Sentences
- D. Operators

22. A) Knowledge base (KB) is consists of set of statements. B) Inference is deriving a new sentence from the KB. Choose the correct option.

- A. A is true, B is true
- B. A is false, B is false
- C. A is true, B is false
- D. A is false, B is true

23. Wumpus World is a classic problem, best example of \_\_\_\_\_
- A. Single player Game
  - B. Two player Game
  - C. Reasoning with Knowledge
  - D. Knowledge based Game
24. The knowledge engineer might already be an expert in the domain, or might need to work with real experts to extract what they know—a process called \_\_\_\_\_
- A. knowledge acquisition
  - B. PEAS Process
  - C. Knowledge task
  - D. knowledge gathering
25. Which statement is an correct example of Existential quantification?
- A.  $x \text{ Crown}(x) \wedge \text{OnHead}(x, \text{John})$  .
  - B.  $x \text{ King}(x) \wedge \text{Person}(x)$
  - C.  $x \text{ King}(x) \vee \text{Person}(x)$
  - D.  $\exists x \text{ Crown}(x) \wedge \text{OnHead}(x, \text{John})$  .

## Internet of Things

1. What is the full form of UBICOM?
- A. Uniform Computing
  - B. Universal Communication
  - C. Ubiquitous Computing
  - D. Uniform Communication
2. UDP is an acronym for \_\_\_\_\_.
- A. User Delivery Protocol
  - B. User Datagram Procedure
  - C. User Datagram Protocol
  - D. Use Datapack protocol
3. MAC address is of \_\_\_\_\_ bits.
- A. 24 bits.
  - B. 48 bits.
  - C. 96 bits
  - D. 100 bits
4. The secure (encrypted) HTTPS usually runs on \_\_\_\_\_ port.
- A. port 80
  - B. port 934
  - C. port 443
  - D. port 08
5. Voice over IP (VoIP)—computer-based telephony, such as Skype is an example of \_\_\_\_\_
- A. IP

- B. TCP
- C. UDP
- D. DNS

6. It is a set of rules for communication between computers?

- A. Protocol
- B. Drivers
- C. Routers
- D. Gateway

7. When the appearance of a specific control suggests its function, it is called \_\_\_\_\_

- A. Affordance
- B. Deffordance
- C. Graceful degradation
- D. Progressive enhancement

8. Which of the following is not a type of RFID ?

- A. Active
- B. Passive
- C. Fully passive
- D. Semi passive

9. A way by which older devices can still read newer formats is called as \_\_\_\_.

- A. Graceful degradation.
- B. Forward compatibility
- C. Progressive compatibility
- D. Enhance compatibility

10. Using code that you already know would be better than having to learn new coding language from scratch is known as \_\_\_\_\_.

- A. Sketching
- B. Familiarity
- C. Prototyping
- D. Simulation

11. An important factor to be aware of is that the hardware and programming choices you make will depend on your skill set, which leads us to the obvious criticism of the idea of \_\_\_\_\_.

- A. Difficulty of prototyping
- B. Severity of prototyping
- C. Solution of prototyping
- D. Ease of prototyping

12. If you've started with a free-form, powerful programming platform, you may find that porting the code to a more restricted, cheaper, and smaller device will bring \_\_\_\_\_

- A. challenges.
- B. Less
- C. No
- D. Many



13. \_\_\_\_\_ can allow each item to be slightly different, letting you personalise each device in some way.
- A. Digital fabrication tools
  - B. Manual tools
  - C. Magic tools
  - D. Work tools
14. scaling up in the early days will involve buying a \_\_\_\_\_ powerful server.
- A. Medium
  - B. Not
  - C. More
  - D. Less
15. If you declared copyright on some source code or a design, someone who wants to market the same project \_\_\_\_\_ do so by simply reading your instructions and following them.
- A. Cannot
  - B. Can
  - C. May
  - D. May not
16. In the \_\_\_\_\_, you release the sources that you use to create the project to the
- A. whole
  - B. close source model
  - C. source model
  - D. Free-paid source model
17. \_\_\_\_\_ is an intelligent thermostat.
- A. West
  - B. Nest
  - C. Best
  - D. Test
18. \_\_\_\_\_ are the ways of getting information into your device, finding out things about your surroundings.
- A. Motors
  - B. Sensors
  - C. Arms
  - D. Acutators
19. \_\_\_\_\_ allow measurement of ambient light levels, thermistors and other temperature sensors allow you to know how warm it is, and sensors to measure humidity or moisture levels are easy to build.
- A. Line Independent resistors
  - B. Light-Independent resistors
  - C. Light-dependent resistors
  - D. Last Dependent resistors

20. \_\_\_\_\_ combine a processor and a number of peripherals onto a single chip but usually have more capabilities.

- A. SeOs
- B. SoCs
- C. ScOs
- D. CoSs

21. faster processor speed means that it can execute instructions \_\_\_\_\_ quickly

- A. Medium
- B. Not
- C. More
- D. Less

22. Due to these trade-offs in size versus manufacturing complexity, many chip designs are available in a number of different form factors, known as \_\_\_\_\_.

- A. Jar file
- B. Packages
- C. Group
- D. Class

23. Operating System activates special reserved memory called \_\_\_\_\_ memory, when system runs out of memory.

- A. Local
- B. Shared
- C. Global
- D. Constant

24. In stack memory \_\_\_\_\_ variable is always pushed first

- A. Compiling
- B. Debugging
- C. interpretation
- D. simulation

