

Board of Departmental Examination, Himachal Pradesh

~~November~~ 2017  
Dec

Paper #3: HPPSC- Computer

Part-A (Theory)

**Time Allowed: 2 Hours**

**Marks: 75**

**Note:** Attempt all questions

**No Reference Book Allowed**

Please tick (✓) the correct option(s):

1. How many layers are in the TCP/IP model?
  - A. 4 Layers    B. 5 Layers
  - C. 6 Layers    D. 7 Layers
  - E. None of the above
2. A station in a network forwards incoming packets by placing them on its shortest output queue. What routing algorithm is being used?
  - A. hot potato routing    B. flooding
  - C. static routing    D. delta routing
  - E. None of the above
3. The probability that a single bit will be in error on a typical public telephone line using 4800 bps modem is  $10^{-3}$ . If no error detection mechanism is used, the residual error rate for a communication line using 9-bit frames is approximately equal to
  - A. 0.003    B. 0.009
  - C. 0.991    D. 0.999
  - E. None of the above
4. When you ping the loopback address, a packet is sent where?
  - A. On the network
  - B. Down through the layers of the IP architecture and then up the layers again
  - C. Across the wire
  - D. Through the loopback dongle
5. In communication satellite, multiple repeaters are known as
  - A. Detector    B. Modulator    C. Stations    D. Transponders
6. The loss in signal power as light travels down the fiber is called
  - A. Attenuation    B. Propagation    C. Scattering    D. Interruption

7. Communication circuits that transmit data in both directions but not at the same time are operating in
- A. a simplex mode
  - B. a half duplex mode
  - C. a full duplex mode
  - D. an asynchronous mode
8. Frames from one LAN can be transmitted to another LAN via the device
- A. Router
  - B. Bridge
  - C. repeater
  - D. Modem
9. You have a class A network address 10.0.0.0 with 40 subnets, but are required to add 60 new subnets very soon. You would like to still allow for the largest possible number of host IDs per subnet. Which subnet mask should you assign?
- A. 255.240.0.0
  - B. 255.248.0.0
  - C. 255.252.0.0
  - D. 255.254.0.0
10. Who is making the Web standards?
- A. Mozilla
  - B. The World Wide Web Consortium
  - C. Google
  - D. Microsoft
11. What is the correct HTML for adding a background color?
- A. `<background>yellow</background>`
  - B. `<body style="background-color:yellow;">`
  - C. `<body bg="yellow">`
12. Choose the correct HTML element to define important text
- A. `<important>`
  - B. `<b>`
  - C. `<i>`
  - D. `<strong>`
13. Choose the correct HTML element to define emphasized text
- A. `<em>`
  - B. `<i>`
  - C. `<italic>`
14. How can you open a link in a new tab/browser window?
- A. `<a href="url" new>`
  - B. `<a href="url" target="_blank">`
  - C. `<a href="url" target="new">`
15. Which of these elements are all `<table>` elements?
- A. `<thead><body><tr>`
  - B. `<table><tr><td>`
  - C. `<table><thead><tfoot>`
  - D. `<table><tr><td>`
16. How can you make a numbered list?
- A. `<ul>`
  - B. `<ol>`

- C. <dl> D. <list>
17. How can you make a bulleted list?
- A. <ol> B. <ul>  
C. <dl> D. <list>
18. What is the correct HTML for making a text input field?
- A. <input type="textfield"> B. <input type="text">  
C. <textinput type="text"> D. <textfield>
19. What is the correct HTML for making a drop-down list?
- A. <list> B. <input type="list">  
C. <input type="dropdown"> D. <select>
20. What is the correct HTML for inserting an image?
- A.   
B. <image src="image.gif" alt="MyImage">  
C. <img alt="MyImage">image.gif</img>  
D. <img href="image.gif" alt="MyImage">
21. Which HTML attribute specifies an alternate text for an image, if the image cannot be displayed?
- A. alt B. title  
C. longdesc D. src
22. The HTML global attribute, "contenteditable" is used to:
- A. Specifies a context menu for an element. The menu appears when a user right-clicks on the element  
B. Update content from the server  
C. Specify whether the content of an element should be editable or not  
D. Return the position of the first found occurrence of content inside a string
23. Which SQL statement is used to extract data from a database?
- A. EXTRACT B. GET

C. OPEN                      D. SELECT

24. Which SQL statement is used to update data in a database?

- A. UPDATE              B. MODIFY  
C. SAVE                  D. SAVE AS

25. Which SQL statement is used to delete data from a database?

- A. REMOVE              B. DELETE  
C. COLLAPSE

26. With SQL, how do you select a column named "FirstName" from a table named "Persons"?

- A. EXTRACT FirstName FROM Persons      B. SELECT FirstName FROM Persons  
C. SELECT Persons.FirstName

27. With SQL, how do you select all the columns from a table named "Persons"?

- A. SELECT \* FROM Persons      B. SELECT \*.Persons  
C. SELECT [all] FROM Persons      D. SELECT Persons

28. With SQL, how do you select all the records from a table named "Persons" where the "FirstName" is "Peter" and the "LastName" is "Jackson"?

- A. SELECT \* FROM Persons WHERE FirstName='Peter' AND LastName='Jackson'  
B. SELECT FirstName='Peter', LastName='Jackson' FROM Persons  
C. SELECT \* FROM Persons WHERE FirstName<>'Peter' AND LastName<>'Jackson'

29. Which SQL statement is used to return only different values?

- A. SELECT DIFFERENT      B. SELECT DISTINCT  
C. SELECT UNIQUE

30. With SQL, how can you insert a new record into the "Persons" table?

- A. INSERT INTO Persons VALUES ('Jimmy', 'Jackson')  
B. INSERT VALUES ('Jimmy', 'Jackson') INTO Persons  
C. INSERT ('Jimmy', 'Jackson') INTO Persons

31. How can you change "Hansen" into "Nilsen" in the "LastName" column in the Persons table?

- A. MODIFY Persons SET LastName='Hansen' INTO LastName='Nilsen'  
B. UPDATE Persons SET LastName='Nilsen' WHERE LastName='Hansen'  
C. UPDATE Persons SET LastName='Hansen' INTO LastName='Nilsen'

- D. MODIFY Persons SET LastName='Nilsen' WHERE LastName='Hansen'
32. With SQL, how can you delete the records where the "FirstName" is "Peter" in the Persons Table?
- A. DELETE FirstName='Peter' FROM Persons
  - B. DELETE FROM Persons WHERE FirstName = 'Peter'
  - C. DELETE ROW FirstName='Peter' FROM Persons
33. Software project management comprises of a number of activities, which contains \_\_\_\_\_.
- A. Project planning
  - B. Scope management
  - C. Project estimation
  - D. All mentioned above
34. Which of the following is not defined in a good Software Requirement Specification (SRS) document?
- A. Functional Requirement.
  - B. Nonfunctional Requirement.
  - C. Goals of implementation.
  - D. Algorithm for software implementation.
35. Which of the following is the understanding of software product limitations, learning system related problems or changes to be done in existing systems beforehand, identifying and addressing the impact of project on organization and personnel etc?
- A. Software Design
  - B. Feasibility Study
  - C. Requirement Gathering
  - D. System Analysis
36. Which design identifies the software as a system with many components interacting with each other?
- A. Architectural design
  - B. High-level design
  - C. Detailed design
  - D. Both B & C
37. Which defect amplification model is used to illustrate the generation and detection of errors during the preliminary steps of a software engineering process?
- A. Design
  - B. Detailed design
  - C. Coding
  - D. All mentioned above
38. Which factors affect the probable consequences if a risk occur?
- A. Risk avoidance
  - B. Risk monitoring
  - C. Risk timing
  - D. Contingency planning
39. Staff turnover, poor communication with the customer are risks that are extrapolated from past experience are called \_\_\_\_\_.

A. Business risks B. Predictable risks

C. Project risks D. Technical risks

40. Requirement engineering process includes which of these steps?

A. Feasibility study B. Requirement Gathering

C. Software Requirement specification & Validation D. All mentioned above

41. Which testing is the re-execution of some subset of tests that have already been conducted to ensure the changes that are not propagated?

A. Unit testing B. Regression testing

C. Integration testing D. Thread-based testing

42. Software Requirement Specification (SRS) is also known as specification of \_\_\_\_\_.

A. White box testing B. Acceptance testing

C. Integrated testing D. Black box testing

43. Difference between Response.Write() and Response.Output.Write().

A. Response.Output.Write() allows you to buffer output

B. Response.Output.Write() allows you to write formatted output

C. Response.Output.Write() allows you to flush output

D. Response.Output.Write() allows you to stream output

44. Why is Global.asax is used?

A. Declare Global variables

B. Implement application and session level events

C. No use

45. Which of the following is not a member of ADODBCommand object?

A. ExecuteScalar B. ExecuteStream C. Open D. ExecuteReader

46. Default Session data is stored in ASP.Net.

A. StateServer B. Session Object

C. InProcess D. all of the above

47. Choose the correct option about DataReader object.

A) DataReader object is a forward-only object.

B) It provides connection oriented environment.

C) DataReader is read only object.

D) All of the above

48. Choose the correct option about DataSet object.
- A) Provides Disconnected mode
  - B) Can store multiple table simultaneously
  - C) Consumer Object
  - D) All of the above.
49. What are the three main objects when working with a DataSet?
- A) DataTable, DataColumn, and type.
  - B) DataTable, DataRelation, and DataAdapter.
  - C) DataTable, DataColumn, and DataRelation.
  - D) DataReader, DataAdapter, and Command.
50. On what object would you set the properties to create a primary key for a DataTable?
- A) DataRelation
  - B) DataColumn
  - C) DataSet
  - D) DataTable
51. Which Data Provider gives the maximum performance when connect to SQL Server?
- A) The SqlClient data provider.
  - B) The OLE DB data provider.
  - C) The Oracle data provider
  - D) All of the above.
52. ASP.NET validation controls works (handle validation) at
- A) Client side only.
  - B) Server side only.
  - C) Both client side and server side.
  - D) None of the above.
53. Client-side validation is turned on by default. If you want that particular validation control should not validate at client side, what will you do?
- A) Set the EnableClientScript property to false.
  - B) Set the validate property to false.
  - C) Set the EnableClientScript property to true.
  - D) Set the Page.IsValid property to false.
54. Suppose that you are developing a website for company name CareerRide. You have used validation control on web page. If the input data is wrong and error occurs, you want that focus should be on that particular control until it has valid data. What will you do?
- A) Focus=true
  - B) set SetFocusOnError property to true.
  - C) ErrorMessage=true.
  - D) None of the above.

55. There is a button on page name cancel and it should bypass validation when cancel button is clicked. What will you do?
- A) set CausesValidation = false.
  - B) set RemoveValidation=true
  - C) set cancel=true
  - D) None of the above.
56. Which is the mandatory property for all validation controls?
- A) ControlToValidate
  - B) Message
  - C) EnableClientScript
  - D) EnableServerScript
57. Which validation control in ASP.NET can be used to determine if data that is entered into a TextBox control is of type Currency?
- A) ValidationSummary
  - B) CompareValidator
  - C) RequiredFieldValidator
  - D) None of the above.
58. CompareValidator control can be used for performing which task?
- A) To perform a data type check.
  - B) To compare the value entered into a form field against a fixed value.
  - C) To compare the value of one form field against another.
  - D) All of the above.
59. If you want to validate the email addresses, Social Security numbers, phone numbers, and dates types of data which validation control will be used?
- A) RegularExpressionValidator
  - B) CompareValidator
  - C) RequiredFieldValidator
  - D) None of the above.
60. What is/are true about master page?
- A) Master page contains a <%@ Master %> directive instead of the normal <%@ Page %> directive.
  - B) ContentPlaceHolder control can be added only on master page.
  - C) You can add as many ContentPlaceHolders to a Master Page as you need.
  - D) All of the above.
61. 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.
62. Which of the following is a valid skin code inside a skin file?
- A) `<asp:TextBox BackColor="Yellow" BorderStyle="Dotted" ID="colorTxt" Runat="Server"/>`  
B) `<asp:TextBox BackColor="Yellow" BorderStyle="Dotted" Runat="Server" />`  
C) `<asp:TextBox BackColor="Yellow" BorderStyle="Dotted" ID="colorTxt" />`  
D) None of the above.
63. Theme can be applied at which level?
- A) Page level  
B) Site level (through the Web.config file).  
C) Individual control level.  
D) All of the above.
64. You need to allow users to choose their own themes. In which page event will you write the user-selected theme?
- A) Page\_Load  
B) Page\_Render  
C) Page\_PreInit  
D) Page\_PreRender
65. Which of the following statements about referencing master page methods and properties is true?
- A) Content pages can reference controls in the master page.  
B) Content pages can reference public properties in the master page.  
C) Content pages can reference public methods in the master page.  
D) All of the above.
66. Cookies can store which type of data?
- A. String    B. DateTime    C. System.Int32    D. None of the above.
67. How can you get the total number of arguments passed to a function?
- A - Using args.length property    B - Using arguments.length property  
C - Both of the above.    D - None of the above.

68. Which of the following type of variable takes precedence over other if names are same?

- A - global variable      B - local variable  
C - Both of the above.      D - None of the above.

69. Which of the following code creates an object?

- A - var book = Object();      B - var book = new Object();  
C - var book = new OBJECT();      D - var book = new Book();

70. Which of the following function of Number object returns a string value version of the current number?

- A - toString()      B - toFixed()  
C - toLocaleString()      D - toPrecision()

71. Which of the following function of String object returns the characters in a string between two indexes into the string?

- A - slice()      B - split()      C - substr()      D - substring()

72. Which of the following function of String object creates a string to be displayed in a big font as if it were in a <big> tag?

- A - anchor()      B - big()  
C - blink()      D - italics()

73. Which of the following function of String object causes a string to be italic, as if it were in an <i> tag?

- A - fixed()      B - fontcolor()  
C - fontsize()      D - italics()

74. Which of the following function of Array object removes the last element from an array and returns that element?

- A. pop()      B. push()      C. join()      D. map()

75. Which of the following function of Array object represents the source code of an object?

- A. toSource()      B. splice()      C. toString()      D. unshift()