



UNIVERSITY OF RUHUNA

Faculty of Engineering

End-Semester 5, Examination in Engineering, July 2017

Module No: EE5207

Module Name: Internet Technologies

Part - I

[1 hour]

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**Instructions for candidates**

- Write your index number on top of every page.
- Question paper contains 50 multiple choice questions.
- Answer all questions. Each question has only one answer.
- For each question, put an X mark on the letter: (a), (b), (c) or (d) which corresponds to the correct answer, by using a black or blue pen.
- Each question carries 0.5 marks.

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| <p>1. Which of the following is the HTTP stands for?</p> <ul style="list-style-type: none"><li>(a) Hyper text transfer protocol</li><li>(b) Hyper text transfer package</li><li>(c) Hyphenation text test program</li><li>(d) None of the above</li></ul> <p>2. Which of the following is not an example for HTTP request method?</p> <ul style="list-style-type: none"><li>(a) PUT</li><li>(b) POST</li><li>(c) GET</li><li>(d) None of the above.</li></ul> <p>3. Which of the following is not an example for HTTP response status codes?</p> <ul style="list-style-type: none"><li>(a) 404 Not Found</li><li>(b) 400 Bad Request</li><li>(c) 500 Internal Server Error</li><li>(d) None of the above</li></ul> | <p>4. Which of the following is an example for HTTP Response fields?</p> <ul style="list-style-type: none"><li>(a) Date</li><li>(b) Cookie</li><li>(c) Accept</li><li>(d) All of the above</li></ul> <p>5. Which of the following is not an example for HTTP Response fields?</p> <ul style="list-style-type: none"><li>(a) application/xml</li><li>(b) application/json</li><li>(c) application/msword</li><li>(d) None of the above</li></ul> <p>6. Which of the following HTTP methods should be used to fetch resource using RESTful web service?</p> <ul style="list-style-type: none"><li>(a) GET</li><li>(b) DELETE</li><li>(c) PUT</li><li>(d) OPTION</li></ul> |
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7. In HTML, which element is used to insert JavaScript code ?
- (a) <head>
  - (b) <link>
  - (c) <javascript>
  - (d) <script>
8. What can be the first tag in any HTML document?
- (a) <head>
  - (b) <title>
  - (c) <html>
  - (d) <document>
9. Choose the correct HTML tag for displaying list with numbers.
- (a) <list>
  - (b) <item>
  - (c) <ol>
  - (d) <ul>
10. Which tag allows you to add a row in a table?
- (a) <td>
  - (b) <th>
  - (c) <tr>
  - (d) <row>
11. What is the wrong statement about HTML Attributes?
- (a) All HTML elements can not have attributes.
  - (b) Attributes come in name/value pairs like: name="value".
  - (c) Attributes are always specified in the start tag.
  - (d) Attributes provide additional information about an element.
12. How can you make a list that lists the items with bullets?
- (a) <ul>
  - (b) <list>
  - (c) <ol>
  - (d) <dl>
13. What is correct about following CSS rule?
- ```
h1 h2 {  
  text-align: center;  
  color: red;  
}
```
- (a) Text in <h1> element becomes red when it is inside an <h2> element.
  - (b) Text in <h2> element becomes red when it is inside an <h1> element.
  - (c) Text in <h1> and <h2> elements become red.
  - (d) None of the above is correct.
14. The ..... property is mostly used to show text in upper case.
- (a) text-effect
  - (b) text-transform
  - (c) text-decoration
  - (d) text-style
15. `div > p {`  
    background-color: yellow;  
}
- (a) when <p> element is a descendant of <div> element, background color is yellow.
  - (b) when <p> element is a immediate child of <div> element, background color is yellow.
  - (c) when <p> element is a sibling of <div> element, background color is yellow.
  - (d) when <p> element is inside of <div> element, background color is yellow.

16. What is the correct way of applying a top and bottom margins of 10px and left and right margins of 20px to a <p> element?
- margin: 20px 10px;
  - margin: 10px 20px;
  - margin: 20px 10px 0px 0px;
  - margin: 10px 20px 0px 0px;
17. What is the correct statement about the following code segment.
- ```

a.highlight:hover {
  color: #ff0000;
}

```
- when mouse move over an <a> element, the link turns blue.
  - when mouse move over an <a> with class highlight element, the link turns blue.
  - when mouse move over an <a> element, the link turns red.
  - when mouse move over an <a> with class highlight element, the link turns red.
18. Following Style is applied to -
- ```

h1.main p {
  font-size: 18px;
  margin-top: 0;
}

```
- <p> element and <h1> element with class *main*.
  - <p> element within <h1> element of class *main*.
  - <p> element within <h1> element with attribute *main*.
  - None of the above.
19. The following CSS style rules are defined in the HTML document.
- ```

p { color: blue;}
p { color: green; }

```
- Which of the following statements is true?
- <p> will not show because of the conflicting rules.
  - First <p> will be blue and rest will be green.
  - All <p> paragraphs will be blue.
  - All <p> paragraphs will be green.
20. The following CSS style rules are defined in the HTML document.
- ```

div p { color: red;}
p { color: blue; }

```
- Which of the following statements is true?
- All <p> paragraphs will be red.
  - All <p> paragraphs will be blue.
  - All <p> except inside the <div> element will be blue.
  - None of the above is correct.
21. Which of the following is not a valid data type in JavaScript?
- Number
  - Boolean
  - Object
  - Float
22. Which of the following is not considered as an error in JavaScript?
- Syntax error
  - Missing of semicolons
  - Division by zero
  - All of the above
23. Which of the following can't be done with client-side JavaScript?
- Validating a form
  - Sending a form's contents by email

- (c) Storing the form's contents to a database file on the server
  - (d) None of the above
24. The var and function are
- (a) Declaration statements
  - (b) Datatypes
  - (c) Prototypes
  - (d) None of the above.
25. What is not an JavaScript event?
- (a) onblur
  - (b) onfocus
  - (c) onerror
  - (d) all of the above.
26. What is true about JavaScript scope?
- (a) Functions have local scope.
  - (b) Variable declared outside the function are in the global scope.
  - (c) Variable declared inside a loop has local scope.
  - (d) All of the above are correct.
27. What is JSON stands for?
- (a) Java Server Object Notification
  - (b) JavaScript Object Notation
  - (c) JavaScript Object Notification
  - (d) None of the above
28. What is not a Pop up boxes available in JavaScript?
- (a) Alert box
  - (b) Confirm box
  - (c) Prompt box
  - (d) File selection box
29. Which of the following is the standard response for successful HTTP request?
- (a) 300 OK
  - (b) 200 OK
  - (c) 100 CONTINUE
  - (d) None of the above
30. Which of the following is not an HTTP header field?
- (a) Accept
  - (b) Cookie
  - (c) Content-Type
  - (d) None of the above
31. Which of the following statements is false about MVC in .NET?
- (a) Complete control over your HTML Markup
  - (b) Makes Test Driven Development (TDD) very difficult
  - (c) Allows you to create Search Engine Optimization friendly URLs for your site
  - (d) Enables rich AJAX and jQuery integration
32. Which of the following statements is false about ASP.NET MVC in .NET?
- (a) Can use razor engine to generate HTML.
  - (b) Separate HTML from data.
  - (c) Allows you to create Search Engine friendly URLs for your site
  - (d) Difficult to test the application.
33. How to return the JSON from action method in ASP.Net MVC?
- (a) return JSON()
  - (b) return ActionResult()
  - (c) return viewResult()
  - (d) return Result()
34. What is the false statemnet about the ViewBag in ASP.NET MVC application?

- (a) It is a class to store data in the Controller.
- (b) It is used to pass data between controller and a view.
- (c) ViewBag is a dynamic property.
- (d) ViewBag doesn't require typecasting for complex data type.
35. What is the output of the following razor code segment ?
- ```
@for(var i = 10; i < 20; i++)
{
    <p>Line #: @i</p>
}
```
- (a) Syntax error
- (b) Print 10 lines
- (c) Print one line
- (d) None of the above is true
36. What is the output of following code segment where products is a List of Products?
- ```
<ol>
    for(var item in products)
    {
        <li> @item.Name </li>
    }
</ol>
```
- (a) Syntax error
- (b) Print bullet list of product names
- (c) Print numbered list of product names
- (d) None of the above
37. Default route of MVC application is
- (a) Home/Index
- (b) Home/Main/id
- (c) Home/About
- (d) Home/Default
38. Master page layout is stored in
- (a) \_Layout.cshtml in Views/Shared folder
- (b) \_MasterPage.html in Views/Master folder
- (c) \_MasterPage.cshtml in View/-Master folder
- (d) None of the above
39. The default location for the view for "Hello" controller's "About" action resides in
- (a) Views/Home/About folder
- (b) Views/Hello/About folder
- (c) Views folder
- (d) None of the above
40. What is wrong about the benefits of using EntityFramework?
- (a) It auto-generates code for the Model and mapping code from database.
- (b) It reduces a lot of development time.
- (c) It can create database from the model class.
- (d) You can only connect to Microsoft SQL Server using EntityFramework.
41. Which of the following is true about Node.JS?
- (a) Node.js is a JavaScript based framework/platform built on Google Chrome's JavaScript V8 Engine.
- (b) Node.JS is used to develop I/O intensive web applications like video streaming sites, single page applications and other web applications.
- (c) Node.js is open source and is completely free to use.
- (d) All of the above.

42. Which of the following is true about package.json in Node.js application?
- (a) package.json is present in the root directory of any Node application/module.
  - (b) package.json is used to define the properties of a package.
  - (c) package.json can be used to update dependencies of a Node application.
  - (d) All of the above.
43. Which of the following statements is valid to use a Node module fs in a Node based application?
- (a) `var fs = require("fs");`
  - (b) `var fs = import("fs");`
  - (c) `package fs;`
  - (d) `import fs;`
44. All APIs of Node.JS are
- (a) Asynchronous
  - (b) Synchronous
  - (c) Both of the above
  - (d) None of the above is true.
45. Which of the following modules is required to create a web server?
- (a) url module
  - (b) net module
  - (c) web module
  - (d) http module
46. What is true about Express.js which is used in Node.js applications?
- (a) An library to speedup Node.js applications.
  - (b) A framework to create real time applications.
  - (c) A web framework used with Node.js.
  - (d) None of the above is correct.
47. What does the following query do when performed on the posts collection?
- ```
db.posts.update({_id:1},
  {Title: post with ID 1"})
```
- (a) Updates the Title of the post
  - (b) Updating a document is possible only with \$set
  - (c) Replaces the complete document with \_id as 1 with the document specified in second parameter
  - (d) Syntax error
48. In a collection that contains 100 post documents, what does the following MongoDB command do?
- ```
db.posts.find()
  .skip(5).limit(5)
```
- (a) Skip and limit nullify each other. Hence returning the first five documents.
  - (b) Skips the first five documents and returns the sixth document five times
  - (c) Skips the first five documents and returns the next five
  - (d) Limits the first five documents and then return them in reverse order
49. Which of the following is correct explanation of MongoDB processes?
- (a) mongod.exe is the shell process and mongo.exe is the actual database process
  - (b) mongo.exe is the shell process and mongod.exe is the actual database process
  - (c) mongos.exe is the MongoDB server process needed to run database