



# UNIVERSITY OF RUHUNA

Faculty of Engineering

End-Semester 5, Examination in Engineering, August 2018

Module No: EE5207

Module Name: Internet Technologies

Part - I

[1 hour]

## 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.

- 
1. What can be the first tag in any HTML document?
    - (a) <head>
    - (b) <title>
    - (c) <html>
    - (d) <document>
  2. Choose the correct HTML tag for displaying list with bullets.
    - (a) <list>
    - (b) <item>
    - (c) <ol>
    - (d) <ul>
  3. The element <a> </a> is used in HTML document to.
    - (a) add an image.
    - (b) add a text.
    - (c) add a link
    - (d) add a video.
  4. Which tag allows you to add a row in a table?
    - (a) <td>
    - (b) <th>
    - (c) <tr>
    - (d) <row>
  5. Which tag allows you to add a column to a row in a table?
    - (a) <td>
    - (b) <th>
    - (c) <tr>
    - (d) <rcv>
  6. 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.
7. How can you make a list that lists the items with bullets?
- (a) <ul>
  - (b) <list>
  - (c) <ol>
  - (d) <dl>
8. What is the <br> tag adds to HTML document.
- (a) page break.
  - (b) line break.
  - (c) paragraph break.
  - (d) None of the above.
9. Which of the following is the HTTP stands for?
- (a) Hyper text transfer protocol
  - (b) Hyper text transfer package
  - (c) Hyphenation text test program
  - (d) None of the above
10. Which of the following is not an example for HTTP request method?
- (a) PUT
  - (b) POST
  - (c) GET
  - (d) DELETE.
11. Which of the following is not an example for HTTP response status codes?
- (a) 404 Not Found
  - (b) 400 Bad Request
  - (c) 500 Internal Server Error
  - (d) None of the above
12. Which of the following is an example for HTTP Response fields?
- (a) Date
  - (b) Cookie
  - (c) Accept
  - (d) All of the above
13. Which of the following is not an example for HTTP Response fields?
- (a) application/xml
  - (b) application/json
  - (c) application/msword
  - (d) None of the above
14. Which of the following HTTP methods should be used to fetch resource using RESTful web service?
- (a) GET
  - (b) DELETE
  - (c) PUT
  - (d) OPTION
15. What is the correct way of inserting external CSS file to HTML document.
- (a) <style src="main.css">
  - (b) <link rel="stylesheet" type="text/css"href="main.css">
  - (c) <stylesheet src="main.css">
  - (d) <link rel="style sheet" type="text/css"href="main.css">
16. 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.

17. The ..... property is mostly used to show text in upper case.

- (a) text-effect
- (b) text-transform
- (c) text-decoration
- (d) text-style

18. What is correct about following CSS rule.

```
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.

19. 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?

- (a) margin: 20px 10px;
- (b) margin: 10px 20px;
- (c) margin: 20px 10px 0px 0px;
- (d) margin: 10px 20px 0px 0px;

20. What is the correct statement about the following code segment.

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

- (a) when mouse move over an <a> element, the link turns blue.
- (b) when mouse move over an <a> with class highlight element, the link turns blue.
- (c) when mouse move over an <a> element, the link turns red.
- (d) when mouse move over an <a> with class highlight element, the link turns red.

21. Following Style is applied to -

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

- (a) <p> element and <h1> element with class *main*.
- (b) <p> element within <h1> element of class *main*.
- (c) <p> element within <h1> element with attribute *main*.
- (d) None of the above.

22. The following CSS style rules are defined in the HTML document.

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

Which of the following statements is true?

- (a) <p> will not show because of the conflicting rules.
- (b) First <p> will be blue and rest will be green.
- (c) All <p> paragraphs will be blue.
- (d) All <p> paragraphs will be green.

23. 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?

- (a) All `<p>` paragraphs will be red.  
(b) All `<p>` paragraphs will be blue.  
(c) All `<p>` except inside the `<div>` element will be blue.  
(d) None of the above is correct.
24. Which of the following is not a valid data type in JavaScript?  
(a) Number  
(b) Boolean  
(c) Object  
(d) Float
25. Which of the following is not considered as an error in JavaScript?  
(a) Syntax error  
(b) Missing of semicolons  
(c) Division by zero  
(d) All of the above
26. Which of the following can't be done with client-side JavaScript?  
(a) Validating a form  
(b) 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
27. The `var` and `function` are  
(a) Declaration statements  
(b) Datatypes  
(c) Prototypes  
(d) None of the above.
28. What is not an JavaScript event?  
(a) `onblur`  
(b) `onfocus`  
(c) `onerror`  
(d) all of the above.
29. 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.
30. What is JSON stands for?  
(a) Java Server Object Notification  
(b) JavaScript Object Notation  
(c) JavaScript Object Notification  
(d) None of the above
31. What is not a Pop up boxes available in JavaScript?  
(a) Alert box  
(b) Confirm box  
(c) Prompt box  
(d) File selection box
32. 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
33. Which of the following is not an HTTP header field?  
(a) Accept  
(b) Cookie  
(c) Content-Type  
(d) None of the above
34. 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
35. 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.
36. How to return the JSON from action method in ASP.Net MVC?
- (a) return JSON()
- (b) return ActionResult()
- (c) return viewResult()
- (d) return Result()
37. 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.
38. 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
39. 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
40. Default route of MVC application is
- (a) Home/Index
- (b) Home/Main/id
- (c) Home/About
- (d) Home/Default
41. 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
42. 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
43. 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.
44. 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.
45. 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.
46. 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;`
47. All APIs of Node.JS are
- (a) Asynchronous
- (b) Synchronous
- (c) Both of the above
- (d) None of the above is true.
48. Which of the following modules is required to create a web server?
- (a) url module
- (b) net module
- (c) web module
- (d) http module
49. 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.
50. 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