



UNIVERSITY OF RUHUNA

Faculty of Engineering

End-Semester 5 Examination in Engineering: October 2019

Module No: EE5207

Module Name: Internet Technologies

Part-A
[One hour]

Instructions for candidates

- Write your index number on top of every page.
- Part-A of the question paper contains 50 multiple choice questions.
- Answer all questions. Each question has only one answer.
- For Part-A, candidate should answer in the same paper by putting an X mark on the letter: (a), (b), (c), or (d) which corresponds to the correct answer using a black or blue pen.
- Part-A of the question paper will be collected after the 1st hour of the examination.
- Each correct answer carries 0.5 marks.

- | | |
|---|--|
| <p>1. What does HTTP stand for?</p> <p>(a) Hypertext Transfer Processor</p> <p>(b) Hypertext Transfer Protocol</p> <p>(c) High Transfer Protocol</p> <p>(d) Html Translate Protocol</p> | <p>(b) Application</p> <p>(c) Transport</p> <p>(d) Network</p> |
| <p>2. What does URL stand for?</p> <p>(a) Universal Research List</p> <p>(b) Universal Resource List</p> <p>(c) Uniform Resource Locator</p> <p>(d) Uniform Reading Loader</p> | <p>5. What is not a valid HTTP method/verb?</p> <p>(a) GET</p> <p>(b) POST</p> <p>(c) EDIT</p> <p>(d) DELETE</p> |
| <p>3. URL is a pathname where information is</p> <p>(a) Stored</p> <p>(b) Located</p> <p>(c) to be transferred</p> <p>(d) Transferred</p> | <p>6. What type of data can be transferred using HTTP?</p> <p>(a) Plain Text</p> <p>(b) Images and Videos</p> <p>(c) HTML content</p> <p>(d) Any type of data</p> |
| <p>4. The HTTP is an layer protocol that allows web-based applications to communicate and exchange data.</p> <p>(a) Presentation</p> | <p>7. Which of the following is not an example for HTTP response status code?</p> <p>(a) 200 Ok</p> <p>(b) 400 Bad Request</p> <p>(c) 500 Internal Server Error</p> <p>(d) None of the above</p> |

8. In HTML, which element is used to insert JavaScript code?
- (a) <javascript>
 - (b) <script>
 - (c) <a>
 - (d) <p>
9. Which HTML tag is used in adding a bulleted list?
- (a) <item>
 - (b)
 - (c)
 - (d)

10. Which is not a valid data type in JavaScript?
- (a) Number
 - (b) Object
 - (c) Boolean
 - (d) Float
11. Default route of MVC application is
- (a) Home/About
 - (b) Home/Main/Id
 - (c) Home/Index
 - (d) Home/Default
12. Which of the following development approaches are supported in Entity Framework?
- (a) Code-First
 - (b) Database-First
 - (c) Model-First
 - (d) All of the above.
13. An instance of class represents a session with the underlying database.
- (a) DbContext
 - (b) DbSet
 - (c) Entity
 - (d) DbSet
14. Which of the following method of DbContext is used to save entities to the database?
- (a) Save()
 - (b) Execute()
 - (c) SaveChanges()
 - (d) Add()
15. Which of the following is not a built-in pipe in Angular?
- (a) CurrencyPipe
 - (b) PercentPipe
 - (c) DataPipe
 - (d) UpperCasePipe
16. Interpolation in Angular is done using
- (a) {{}}
 - (b) {{|var}}
 - (c) {{{}}}
 - (d) !!!!
17. In Angular, you can pass data from parent component to child component using
- (a) @Output()
 - (b) @Input()
 - (c) Input
 - (d) Output
18. Which command is used for starting Angular application?
- (a) ng build
 - (b) ng profile
 - (c) ng lint
 - (d) ng serve
19. How can you comment using Razor Syntax?
- (a) *@ Comment me *@
 - (b) @* Comment me *@
 - (c) @* Comment me @*
 - (d) *@ Comment me @*
20. The Razor View Engine uses to render server-side content.
- (a) @
 - (b) <%= %>
 - (c) Both A & B
 - (d) None

21. Which of the following is true?
- (a) `var fs = require("fs");`
 - (b) `var fs = import("fs");`
 - (c) `package fs;`
 - (d) `import fs;`
22. All APIs of Node.js are
- (a) Asynchronous
 - (b) Synchronous
 - (c) Both A & B
 - (d) None of the above is true
23. What is wrong about the benefits of Entity Framework?
- (a) It reduces a lot of development time.
 - (b) It auto-generates code for the Model and mapping code from the database.
 - (c) It can create a database from the model class.
 - (d) It can only connect to Microsoft SQL Server.
24. The default location for the view of "HelloController"'s "About" action is
- (a) Views/Home/About
 - (b) Views/Hello/About
 - (c) View directory
 - (d) None of the above
25. Which tag is used in adding a row to a table in HTML?
- (a) `<td>`
 - (b) `<th>`
 - (c) `<tr>`
 - (d) `<row>`
26. Which tag is used in adding a column to a table in HTML?
- (a) `<td>`
 - (b) `<th>`
 - (c) `<tr>`
 - (d) `<row>`
27. The element `<a>` is used in HTML to
- (a) add a text
 - (b) add a link
 - (c) add an image
 - (d) add a video
28. 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
29. Which of the statement is false about AASP.Net MVC?
- (a) Separate HTML from data.
 - (b) Can use the razor engine to generate HTML.
 - (c) Difficult to test the application.
 - (d) Allows you to create "Search Engine" friendly URLs for your site.
30. What is the false statement about the View-Bag in ASP.Net MVC application?
- (a) ViewBag is a dynamic property.
 - (b) It is a class to store data in the Controller.
 - (c) It is used to pass data between the controller and view.
 - (d) ViewBag doesn't require typecasting for complex data type.
31. What is the output of the following razor cod snippet?
- ```
@for(var i = 10; i < 20; i++0)
{
 <p>Line #: @i </p>
}
```
- (a) Syntax error
  - (b) Print 10 lines
  - (c) Print 1 line
  - (d) None of the above
32. Which of the following is a correct Attribute ?
- (a) Authorize

- (b) Display  
(c) A & B  
(d) None of the above
33. Which 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) margins: 20px 10px;  
(b) margins: 10px 20px;  
(c) margins: 20px 10px 0px 0px;  
(d) margins: 10px 20px 0px 0px;
34. What is the method that can remove white space from a string?
- (a) Split()  
(b) Substring()  
(c) Trim()  
(d) TrimStart()
35. What will be the output of the following C# code?
- ```
static void Main(string[] args)
{
    float f;
    for (f = 0.1f; f <= 0.5; f += 1)
        Console.WriteLine( ++f );
    Console.ReadLine();
}
```
- (a) 1.1
(b) 0.1
(c) 0.1 0.2 0.3 0.4 0.5
(d) None of the above
36. How to print \\ on the screen?
- (a) Console.WriteLine("\\");
(b) Console.WriteLine("\\\\");
(c) Console.WriteLine("\\\\");
(d) Console.WriteLine("\\\\");
37. MVC stands for
- (a) Model, Vision & Control
(b) Model, View & Controller
(c) Model, ViewData & Controller
(d) Model, Data & Controller
38. Which of the following is a type of view in MVC?
- (a) Partial view
(b) Executable view
(c) Data view
(d) Designer view
39. Which of the following is true?
- (a) An action method can be a static method in a controller class.
(b) An Action method can be a private method in a controller class.
(c) An Action method can be a protected method in a controller class
(d) An Action method must be a public method in a controller class.
40. Which is the default HTTP method for an action method?
- (a) HttpPost
(b) HttpGet
(c) HttpPut
(d) HttpDelete
41. Which of the following view contains common parts of UI?
- (a) Partial view
(b) Html View
(c) Layout view
(d) Razor view
42. Which of the following default class is used to configure all the routes in MVC?
- (a) FilterConfig
(b) RegisterRouteConfig
(c) RouteConfig
(d) MVCRoutes
43. Which is the extension used in saving NodeJs files?
- (a) js
(b) .node
(c) .java
(d) .txt

44. What is the command for creating a new component Test in Angular?
- (a) `npm new component Test`
 - (b) `ng generate component Test`
 - (c) `ng g c Test`
 - (d) B & C
45. Which of the following is true about RESTful web services?
- (a) Web services based on REST Architecture are known as RESTful web services.
 - (b) Web services use HTTP methods to implement the concept of REST architecture.
 - (c) Both of the above
 - (d) None of the above
46. Which of the following statements is correct about constructors in C#.NET??
- (a) A constructor cannot be declared as private.
 - (b) A constructor cannot be overloaded.
 - (c) A constructor can be a static constructor.
 - (d) None of the above
47. The correct syntax for do while loop is
- (a) `do; { statement; }while (condition);`
 - (b) `do(condition) { statement; }while;`
 - (c) `do { statement; }while (condition)`
 - (d) `do { statement; }while (condition);`
48. NPM stands for
- (a) Node Package Manager
 - (b) Node Project Manager
 - (c) New Project Manager
 - (d) New Package Manager
49. 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.
50. Which of the following commands will return all the posts with the number of likes greater than 100 and less than 200, both inclusive?
- (a) `db.posts.find({ likes : { $gt : 100, $lt : 200 } });`
 - (b) `db.posts.find({ likes : { $gte : 100, $lt : 200 } });`
 - (c) `db.posts.find({ likes : { $gt : 100 , $lte : 200 } });`
 - (d) `db.posts.find({ likes : { $gte : 100 , $lte : 200 } });`