

**B.Tech 5th Semester Exam., 2019****WEB TECHNOLOGY**

Time : 3 hours

Full Marks : 70

**Instructions :**

- (i) The marks are indicated in the right-hand margin.
- (ii) There are **NINE** questions in this paper.
- (iii) Attempt **FIVE** questions in all.
- (iv) Question No. 1 is compulsory.

1. Choose the correct answer from the following  
(any seven) : 2×7=14

- (a) A DNS client is called
- (i) DNS updater
  - (ii) DNS resolver
  - (iii) DNS handler
  - (iv) None of the above
- (b) If a server has no clue about where to find the address for a hostname, then
- (i) server asks to the root server
  - (ii) server asks to its adjacent server
  - (iii) request is not processed
  - (iv) None of the above

- (c) Which of the following is not used with text-decoration property?
- (i) Overline
  - (ii) Underline
  - (iii) Line-through
  - (iv) Inline
- (d) Which of the following HTML tags is used to define an internal style sheet?
- (i) <script>
  - (ii) <css>
  - (iii) <style>
  - (iv) None of the above
- (e) JavaScript code is written inside file having extension
- (i) .jvs
  - (ii) .JavaScript
  - (iii) .js
  - (iv) .jsc
- (f) JavaScript is called as lightweight programming language because
- (i) JS is available free of cost
  - (ii) JS is client-side scripting
  - (iii) we can add programming functionality inside JS
  - (iv) JS can provide programming functionality inside but up to certain extent

- (g) Choose the correct HTML tag to make a text bold.
- (i) <b>
  - (ii) <bold>
  - (iii) <bb>
  - (iv) <bld>
- (h) What is the fundamental unit of information of writer streams in Java?
- (i) Characters
  - (ii) Bytes
  - (iii) Files
  - (iv) Records
- (i) The command to execute a compiled Java program is
- (i) javac
  - (ii) java
  - (iii) run
  - (iv) execute
- (j) The Java compiler
- (i) creates executable
  - (ii) translates Java source code to byte code
  - (iii) creates classes
  - (iv) produces Java interpreters

2. (a) What, if there is no text between the tags or if a text was omitted by mistake, will it affect the display of the HTML file? Explain with the help of example. 7
- (b) Describe the HTML code required for adding a form to a Web page. 7
3. (a) What are events? Explain the events used in JavaScript with the help of examples. 7
- (b) Explain various data types used in JavaScript with the help of examples. 7
4. (a) What do you understand by working layer in DHTML? Explain with the help of example. 7
- (b) How can you do dragging and dropping data using DHTML? Explain with example. 7
5. (a) Describe how the following features of Java relate to the behavior of accessor and mutator methods : 7
- (i) Fields
  - (ii) Local variables
  - (iii) Parameters
  - (iv) Return values
  - (v) Visibility modifiers
- Illustrate each with brief code samples.

- (b) What is Inheritance? Explain its different types. Write Java program to implement multiple inheritance. 7
6. Define a class called Fuel Monitor that will be used to check the amount of fuel that is left over in a vehicle after travelling a certain distance. The class should have instance variables tank capacity to store initial size of the tank and efficiency to store initial efficiency of the vehicle. Also, set the variable fuel\_in\_tank to zero that is used to store initial fuel in tank. Include a method that returns ini\_tank\_size, ini\_effi and fuel\_in\_tank. Include a method add\_fuel that calculates how much fuel can be filled depending upon the fuel already in the tank and the capacity of the tank. Also, include a method drive\_distance that returns how much distance can be travelled with the fuel available in the tank with the efficiency provided. Embed your class in a test program. You should decide which variables should be public, if any. 14
7. Write a program to display current cursor position of the mouse pointer on an Applet using MouseMotionListener interface. 14

8. Write an Applet application which will display colours in list box and a scrolling banner which scrolls from left to right within a browser. When user selects any color from the list, it changes the color of scrolling banner. 14
9. Write short notes on any two of the following : 7×2=14
- (a) AWT ✓
  - (b) Exception Handling ✓
  - (c) DHTML and HTML ✓
  - (d) API

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