Paper Id: 110520 Roll No: | | | | | | | | | | | | | |

B TECH
(SEM V) THEORY EXAMINATION 2019-20
WEB TECHNOLOGY

Time: 3 Hours *Total Marks: 100*

Note: 1. Attempt all Sections. If require any missing data; then choose suitably.

SECTION A

1. Attempt *all* questions in brief. 2 x10 = 20

a. State the various DNS and protocols used.
b. What is web portal? Write name of two public web portals.
c. What is a Cookie.
d. Explain pop-up boxes in javascript with example.
e. Difference between HTML Schema and XML Schema.
f. Differentiate between SMTP and POP.
g. What are the different types of nodes in DOM.
h. Write the directory structure of a typical web server.
i. How will you embed the PHP code in the HTML?
j. What is PCDATA in XML?

SECTION B

2. Attempt any *three* of the following: 10 x 3 = 30

a. What is HTTP? How do browser and server communicate using HTTP request and response? Explain with example.
b. Describe the steps used to create bean and to build applications using BDK.
c. Design a DOM for a Library Management System with proper diagram.
d. Describe the concept of Servlet. Also Differentiate between Applet and Servlet.
e. What is Java Bean? What are the advantages of java beans. Why is it necessary to understand JAR files before developing a bean?

SECTION C

3. Attempt any *one* part of the following: 10 x 1 =10

(a) Explain the difference between static web pages, dynamic web page and active web pages.
(b) Explain different design issues at the time of designing an effective website.

4. Attempt any *one* part of the following: 10 x 1 =10

(a) Create a XML document of 3 student of MCA final.
(i) Add marks in 5 subjects, (ii) Roll no, (iii) Percentage.
Give a valid DTD for the following document.
(b) Write HTML code to develop a web page having two frames that divide the page into two equal rows and divides the first row into two equal columns.

5. Attempt any *one* part of the following: 10 x 1 =10

(a) What is an exception? How is exception handled in JAVA. Differentiate between Throw and Throws.
(b) Explain AJAX. Properly show the working of it with proper code.

6. Attempt any *one* part of the following: 10 x 1 =10

(a) Write a JavaScript program to print first N odd numbers divisible by 7.
(b) What is XML? Write an XML file to store information of books. Design its DTD.

7. Attempt *one* part of the following: 10 x1 = 10

(a) What is EJB? Also explain EJB Architecture. And differentiate between Java Bean and EJB.
(b) Write short notes on COM/DOM and ASP.

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