

Paper Id:

110520

Roll No:

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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 x 10 = 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 x 1 = 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.