

(i) Printed Pages : 3

Roll No.

(ii) Questions : 9

Sub. Code :

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Exam. Code :

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B.A./B.Sc. (General) 4th Semester

(2053)

INFORMATION TECHNOLOGY

Paper : B Data Networks and Web Based Applications

Time Allowed : Three Hours]

[Maximum Marks : 65

Note :— Attempt **FIVE** questions in all by selecting **ONE** question from each Unit. Entire Question No. IX is compulsory.

UNIT—I

- I. (a) Differentiate among Protocol, Interface and Layer with the help of a diagram.
- (b) Explain TCP/IP model. Name various protocols used at each layer. 7,6
- II. (a) What is HTML ? Describe the building blocks of HTML.
- (b) Differentiate between Ordered and Unordered Lists. How are they created in HTML ? Give examples. 7,6

UNIT—II

- III. (a) What is the use of CSS in a website ? Explain different ways to apply them.
- (b) What is JavaScript ? Describe the various data types used in JavaScript. 7,6

- IV. (a) What is Document Object Model ? How is it helpful ?
(b) Write a script which takes values of day, month and year and displays them in mm-dd-yyyy format using an alert box. 7,6

UNIT—III

- V. (a) Explain the Data types available in Java.
(b) Differentiate among abstract method, instance method and class method. Give examples. 7,6
- VI. (a) What is Inheritance ? Describe its various types available in Java. Give examples.
(b) How are Arrays implemented in Java ? Write a program to add elements of two 2D Arrays. 7,6

UNIT—IV

- VII. (a) What is a Package ? Explain the use of built-in packages in Java.
(b) How is an Interface created and implemented in Java ? Give examples. 7,6
- VIII. (a) What is Java Thread Model ? Describe different ways of implementing it in Java.
(b) Explain the use of Applet Tag with examples. 7,6

UNIT—V

(Entire Question is compulsory)

IX. Give short answers :

- (a) What is the use of Search Engine ?
- (b) Name any two protocols used at Transport Layer.
- (c) Explain any three attributes of <body> tag.
- (d) Explain the use of 'this' keyword in JavaScript.
- (e) 'Write once and run anywhere', this is said about Java Code. Why ?
- (f) What is Method Overriding ?
- (g) What will be the output of `System.out.println (12+21+"numbers");` ?
 $6 \times 2 + 1 = 13$