

(i) Printed Pages: 3

Roll No.

(ii) Questions : 9

Sub. Code :

0	3	7	8
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Exam. Code :

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B.A./B.Sc. (General) 4th Semester
(2054)

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 Q. No. IX is compulsory.

UNIT—1

- I. (a) What is a Search Engine ? How does it work ? Name popular Search Engines.
- (b) Explain OSI Reference Model briefly. 6,7
- II. (a) What is the role of tag in HTML ? Explain the main attributes used with tag.
- (b) Describe the use of various types of links in HTML. Also explain the tags and their attributes used for creating links. 6,7

UNIT—2

- III. (a) What are Cascading Style Sheets ? Describe merits and demerits of in-line style sheets.
- (b) Compare and contrast any two looping controls used in JavaScript with examples. 6,7
- IV. (a) How events are managed in JavaScript ? Design a webpage which takes username and password from the user and checks their validity.
- (b) Write short note on the Math and Date objects used in JavaScript. 6,7

UNIT—3

- V. (a) Explain various data types available in Java.
- (b) Explain the use of Abstract classes in Java.
- (c) Explain the use of final keyword in Java. 5,4,4
- VI. (a) Explain the concept of Constructors in Java. Also explain how super keyword is used to call super class Constructor ? Give examples.
- (b) What is Dynamic method Dispatch ? Explain briefly with example. 6,7

UNIT—4

- VII. (a) What is the use of an Interface ? How is it different from a class ? Explain its implementation in Java.
- (b) Explain the role of Packages in Java. How are they created and used ? 6,7

VIII. (a) What is an Exception ? How is it caught in Java ? Give a suitable example.

(b) Explain the various ways to create threads in Java with the help of suitable examples. 6,7

(Entire Question is Compulsory)

IX. Write short answers :

(i) Describe any two benefits of Computer Networks.

(ii) Differentiate between TCP and UDP.

(iii) Explain terms : Cellpadding and Cellspacing.

(iv) What is the use of alert() dialog box in JavaScript ?

(v) How does parseFloat() work in JavaScript ?

(vi) What is the use of static classes in Java ?

(vii) How does JVM work ? 6×2+1