

(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) 4<sup>th</sup> Sem.**

**(2042)**

**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 Section (A-D). Entire Question No. **IX** is compulsory.

**SECTION–A**

- I. (a) Describe various types of Networks. Also explain the hardware required for setting a Network.
- (b) Differentiate between TCP/IP model and OSI reference model. 7,6
- II. (a) What is Hyperlink ? Explain various tags and their attributes used for creating Internal and External Links.
- (b) Write HTML code to create a Form having fields—Username, Password and Gender. Also explain the tags used for creating it. 7,6



## SECTION-B

- III. (a) What is CSS ? Describe the use of various types of Style Sheets with the help of examples.
- (b) Explain the use of different operators used in JavaScript. Give examples. 7,6
- IV. (a) Explain the use of Looping constructs used in JavaScript. Explain with the help of examples.
- (b) How are events handled in JavaScript ? Explain the commonly used events in JavaScript. 7,6

## SECTION-C

- V. (a) Explain Decision Making Control Constructs used in Java. Give examples.
- (b) What is Method Overloading ? What is its purpose and how is it implemented in Java ? 7,6
- VI. Explain the following in Java :
- (i) Method Overriding
- (ii) Abstract Classes
- (iii) Final Keyword. 5,5,3

## SECTION-D

- VII. (a) How are Packages created and used in Java ? Give example.
- (b) How are Exceptions Handled in Java ? Give example. 7,6



- VIII. (a) How is Inter Thread Communication achieved in Java ?  
(b) Differentiate between Applet and Application. Give examples.

7,6

IX. Give short answers. (Entire question is compulsory) :

- (i) What is WWW ?
- (ii) What is bytecode ?
- (iii) Differentiate between static and instance methods.
- (iv) Explain the use of 'super' keyword.
- (v) What is Deadlock ?
- (vi) Explain the method used for stopping and resuming threads.
- (vii) What is CLASSPATH ?

$6 \times 2 + 1 = 13$