

(12)

(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
Examination**

1047

INFORMATION TECHNOLOGY

(Data Networks and Web Based Application)

Paper : B

Time : 3 Hours]

[Max. Marks : 65

Note :- Attempt *five* questions in all, selecting *one* question each from Sections A, B, C and D. Section E is compulsory.

Section-A

1. (a) What is a Network ? Discuss hardware and software requirements of a network. 7
- (b) What do you understand by switching in a network ? Differentiate between circuit switching and packet switching. 6

N-84

(1)

Turn Over

2. (a) Discuss Hamming Distance Code with the help of an example.
- (b) Differentiate between Static and Dynamic Channel Allocation. Differentiate between Pure and Slotted ALOHA with the help of neat diagrams. 7,6

Section-B

3. (a) Discuss shortest Path Routing Algorithm with the help of an example.
- (b) What do you understand by congestion in a network ? How to control congestion ? 7,6
4. (a) How to secure a network using cryptography ? Explain with the help of appropriate examples.
- (b) Discuss the architecture of World Wide Web. 7,6

Section-C

5. (a) Discuss evolution and future of internet.
- (b) Create a webpage using HTML which should include an ordered list of fruits and an unordered list of vegetables. 7,6
6. (a) How to include images in a webpage ?
- (b) How to link different webpages using HTML ?
- (c) Discuss various services provided on internet. 4,4,5

Section-D

7. (a) How to create tables and frames in HTML ?
Explain with the help of examples.
- (b) Give importance differences between JAVA
and C++. 7,6
8. (a) What is a class ? How to define classes and
create objects in JAVA ? Explain with the
help of an example program.
- (b) How method overloading is done in JAVA ?
Give example program(s). 7,6

Section-E

9. (a) What is Network Topology ? 2
- (b) What do you understand by Multiplexing ? 2
- (c) Give two uses of flooding. 2
- (d) What is Multimedia ? 2
- (e) What is the use of Cascading Style Sheets ? 2
- (f) List various operators available in JAVA. 3