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BF—364/365—2016

FACULTY OF SCIENCE

B.Sc. (Third Year) (Sixth Semester) EXAMINATION

NOVEMBER/DECEMBER, 2016

(Revised Course)

COMPUTER SCIENCE

Paper XV-A

(Computer Network)

OR

Paper XV-B

(Unix Shell Programming)

(Thursday, 1-12-2016)

Time : 10.00 a.m. to 12.00 noon

Time—2 Hours

Maximum Marks—40

Paper XV-A

(Computer Network)

- N.B. :—*
- (i) Attempt *All* questions.
 - (ii) Assume suitable data, if necessary.
 - (iii) Figures to the right indicate full marks.

1. Attempt any *four* of the following : 8
 - (a) Define Computer Network. Explain any *two* uses of Computer Network.
 - (b) Explain in brief Twisted Pair.
 - (c) Explain the concept of Switching.
 - (d) What is protocol ? Explain the purpose of TFTP.
 - (e) Distinguish between wired and wireless networks.
 - (f) What is Bluetooth ? Explain in brief.
2. Solve any *two* of the following : 8
 - (a) Explain in detail Fiber Optics.
 - (b) Explain Geographical Classification of Network.
 - (c) Explain architecture and services of email.

P.T.O.

3. Solve any *two* of the following : 8
 - (a) Explain in brief network terminology.
 - (b) Explain network topologies.
 - (c) Explain in brief Cable Television networks.
4. Solve any *one* of the following : 8
 - (a) Explain in detail TCP/IP model.
 - (b) Explain in detail IP Addresses and explain the concept of subsets.
5. Write short notes on (any *two*) : 8
 - (a) Leased Lines
 - (b) Internet Routing
 - (c) UDP
 - (d) Data Encryption.

OR

Paper XV-B

(Unix Shell Programming)

- N.B.* :—
- (i) Attempt *All* questions.
 - (ii) Assume suitable data, if necessary.
 - (iii) Figures to the right indicate full marks.

1. Attempt any *four* of the following : 8
 - (a) Define shell.
 - (b) Explain advantages of using unix.
 - (c) What are metacharacters ?
 - (d) What do you mean by error recovery ?
 - (e) Explain ls command.
 - (f) What is macro ?
2. Attempt any *two* of the following : 8
 - (a) Explain concept of exit codes.
 - (b) What is system call ?
 - (c) Write shell program for addition of two numbers.

3. Attempt any *two* of the following : 8
- (a) Explain Relational operators in detail.
 - (b) Explain any *two* built in functions.
 - (c) Explain pick command in detail.
4. Attempt any *one* of the following : 8
- (a) Explain directory structure in unix.
 - (b) Explain the concept of Get and Put.
5. Write short notes on (any *two*) : 8
- (a) Grep
 - (b) Traps
 - (c) Conditional expressions
 - (d) Tbl.