2017

BCA

4th Semester Examination OS LAB AND COMPUTER NETWORK LAB

PAPER-2297 (SET-2)

(PRACTICAL)

Full Marks: 100

Time: 3 Hours

The figures in the right-hand margin indicate full marks.

Candidates are required to give their answers in their own words as far as practicable.

Questions should be distributed on lottery basis.

Answer any two questions taking one from each group.

(on lottery basis)

Group - A

(OS Lab)

Answer any one on lottery basis:

 1×25

- 1. Write a shell program to implement linear search.
- 2. Write a shell program to convert a decimal number to its equivalent binary number.

(Turn Over)

3. Write a shell program which gets executed the moment the user logs in. It should display the message

"Good morning" or

"Good afternoon" or

"Good evening"

depending upon the time at which the user logs in.

- 4. Write a shell program to find the LCM and HCF of any three given number.
- 5. Write a shell program to implement multiplication table of a given number.
- 6. Write a shell program to draw the following pattern:

1

1 2

1 2 3

1 2 3 4

- 7. Write a shell program to check whether a string is palindrome or not.
- 8. Write a shell program to perform bubble sort in a given array of n elements.
- 9. Write a shell program which will copy a file to other file name. The source and destination should be given as command line argument.

- 10. Write a shell program to list out the Armstrong number between 99 to 9999.
- 11. Write a shell program to draw the following pattern:

12. Write a shell program to calculate the following series.

$$\frac{1}{1^2} + \frac{1}{2^2} + \frac{1}{3^2} + \dots + \frac{1}{n^2}$$

Group — B

(Network Lab)

Answer any one on lottery basis:

 1×25

- 1. Write a UDP server program that receives a string of character from the client.
- 2. Write a program to implement connections sender to send UDP message to peer.
- 3. Write a TCP client program that asks for the time from a TCP server.
- 4. Write a UDP echo server program using socket.
- 5. Write a program to implement modified server.

- **6.** Write a program to implement character send and receive from server.
- 7. Write a server procedure that sleeps for 15 seconds.
- 8. Write a TCP client server program that behaves like a simple TELENET.

INSTRUCTIONS

Distribution of Marks -

Practical Note Book : 05

Viva-Voce : 15

Experiments —

Group - A : 25

Group - B : 25

Internal Assessment : 30

TOTAL : 100