2019

BCA

4th Semester Examination

OS & Computer Network Lab

Paper – 2297

(Practical)

(Set – I)

Full Marks – 100

Time : 3 Hours

The figures in the margin indicate full marks.
Candidates are required to give their answers in their
own words as far as practicable.

GROUP – A
(O. S. LAB)

Answer any **one** question : (on lottery basis)

25×1

1. Write a shell script to check if a number is prime or not.

2. Write a a shell script to display first n Fibonacci numbers where n is read from key board.

3. Write a shell script to check if a string is palindrome or not.

4. Write a shell script to convert a decimal number to its equivalent binary number.

5. Write a program to sort n elements.

6. Write a shell program to check if a number is armstrong or not.

7. Write a program to create a process in Unix.

8. Write a program to create a child process.

9. Write a shell program to search an element from 'n' number of element.

10. Write a shell program to evaluate the arithmetic expression $M = [(a - b) + (c + d) * e\%f]$ where a, b, c, d, e are integer numbers.

Group – B

(Network Lab)

Answer any **one** question : (on lottery basis)

25×1

1. Write a 'C' program that implements both client and server which exchange strings using TCP.

2. Write a socket program to send a data from server to client as user like to input using TCP.

3. Write a socket program to send data from client to server when connected using TCP.

4. Write a program that receives an IP address (in IPV4 format) and determines the class of this IP address.

5. Write a socket program in TCP method for bidirectional data transfer between client & server.

6. Write a socket program to send a data from server to client as user like to input using UDP protocol.

7. Write a TCP server program that receives character from client.

8. Write a program to detect IP address.

9. Writer a program to implement MAC address.

10. Write a program to implement modified server.

PNB   —   05 Marks

Viva voce   —   15 Marks

[Internal Assessment – 30 marks]

_____