PG/IIIS/COS-305/18 (Pr.)

M.Sc. 3rd Semester Examination, 2018

COMPUTER SCIENCE

PAPER — COS-305

(Practical)

Full Marks : 50

Time : 2 hours

Answer any one question (Lottery basis)

The figures in the right-hand margin indicate marks

1. Write a program in C to fork a new child process to display list of files and parent process should wait for the completion of child. 35

2. Write a program in C to create a Zombia process. 35

(**2**)

3. (*a*) Write a program in C to create a new process using system ( ) that display the processes running on your system.

(*b*) Write a shell program to find the highest of three numbers. 20 + 15

4. (*a*) Write a program in C to print process id of a process and its parent process id also.

(*b*) Write a shell program to check a string is palindrome or not. 15 + 20

5. (*a*) Write a program in C to duplicate a program's process using fork ( ).

(*b*) Write a shell program to generate first 20 fibonacci numbers. 20 + 15

6. (*a*) Write a shell program to check a file is exist or not and if it is exist then display its type.

(*b*) Write a program in C to print process id of a process and its parent process id also. 20 + 15

7. (a) Write a shell program to find reverse of an integer number.

    (b) Write a program in C to duplicate a program's process using fork ( ).   15 + 20

8. (a) Write a shell program to make a basic calculator.

    (b) Write a program in C to create a new process using system ( ) that display list of files.   15 + 20

9. (a) Write a shell program to check a number is palindrome or not.

    (b) Write a program in C to duplicate a program's process using fork ( ).   15 + 20

10. Write a program in C to implement FCFS CPU scheduling algorithm.   35

Viva Voce — 10 Marks

Practical Note Book — 5 Marks

———————