PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

BSc DEGREE EXAMINATION MAY 2018
(Fifth Semester)

Branch- INFORMATION TECHNOLOGY

OPERATING SYSTEM

1 ime : Three Hours Maximum : 75 Marks

SECTION-A 120 Marks!

Answer **ALL** questions
ALL questions carry **EQUAL** marks (1 0 x 2 = 20)

1 What do you mean by non preemptive scheduling?
2 How a dead lock can be represented?
3 What is paging?
4 What is the necessary of page replacement?
5 Write about the on-disk structures of file systems.
6 What do you mean by seek time and rotational time?
7 Write about pipes in Linux?
8 What do you mean by 'everything is a file' in Linux?
9 What do you mean by a canonical behavior?
10 Write the syntax and usage of FSEEK function in Linux.

SECTION - B *(25* Marks)

Answer ALL Questions
ALL Questions Carry **EQUAL** Marks (5 x 5 = 25)

11 a Discuss about the FCFS Scheduling algorithm with example,

OR

b Explain about the Resource allocation graph with example.

12 a Explain the LRU page replacement algorithm with example.

OR

b Explain about the page buffering algorithm.

13 a Discuss about contagious allocation of file system allocation methods.

OR

b Write about "Bad Block".

14 a Explain any 5 functions used for formatted input and output.

OR

b Write about the control structures in Linux Shell Programming.

15 a Discuss about the hardware model of the Terminal.

OR

b Discuss the usage of Environment Variables.

SECTION - C (30 Marks)

Answer any **THREE** Questions
ALL Questions Carry **EQUAL** Marks (3 x 1 0 = 30)

16 Explain about the multilevel queue scheduling.

17 Discuss in detail about "Demand Paging" concept of memory management

18 Explain in detail about Disk Formatting.

19 Discuss in detail about the 'Scanning Directories' in Linux.

20 Write in detail about 'TERMIOS' structure in Linux.

Z-Z-Z END