14ITU26

PSG COLLEGE OF ARTS & SCIENCE

(AUTONOMOUS)

BSc DEGREE EXAMINATION DECEMBER 2019

(Fifth Semester)

Branch - **INFORMATION TECHNOLOGY**

OPERATING SYSTEM

Time : Three Hours Maximum : 75 Marks

SECTION-A (20 Marks)

Answer **ALL** questions

ALL questions carry **EQUAL** marks (10 x 2 = 20)

1 List out the Scheduling Algorithms.
2 What are the four conditions for arising deadlock situations?
3 Define Paging.
4 What do you meant by Demand Segmentation?
5 How does FCFS disk scheduling work?
6 List out six basic file operations.
7 What is UNIX?
8 What are the uses of sterrorQ and perror() functions?
9 List out any four Linux Environment Variables,
10 How do you find the line speed of Terminal in Linux?

SECTION - B (25 Marks!

Answer **ALL** Questions

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

11 a How does the Round-Robin Scheduling work?

OR

b Write the steps of Deadlock Detection algorithm.

12 a Write the functions of Segmentation Flardware.

OR

b Discuss on the performance of Demand Paging.

13 a Write short notes on disk Structure.

OR

b Elucidate the characteristics of Contigious Allocation Method.

14 a Narrate the topic “Shell as a Programming Language”.

OR

b List out and give short notes on various standard I/O Library functions.

15 a Explain the usage of getopt and getopt long functions.

OR

b Write short notes on using terminfo capabilities.

SECTION - C (30 Marks)

Answer any **THREE** Questions

ALL Questions Carry **EQUAL** Marks (3 x 10 = 30)

16 Explain in detail about Multilevel Queue Scheduling.

17 Discuss about Segmentation with paging and explain about Intel 80386 Address Translation.

18 Write in detail about Magnetic Disk formatting and Boot Block.

19 How do you use the pipes and redirection in Linux? Explain with example.

20 Exnlain Linux environment variables and their uses.