

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

MCA DEGREE EXAMINATION DECEMBER 2018
(Third Semester)

Branch - **COMPUTER APPLICATIONS**

OPERATING SYSTEM

Time: Three Hours

Maximum: 75 Marks

SECTION -A (30 Marks)

Answer **ALL** questions

ALL questions carry **EQUAL** Marks (5x6 = 30)

- 1 a Discuss about Process,
OR
b Write in detail about types of OS.
- 2 a What is semaphore? Explain.
OR
b Explain Deadlock characterization.
- 3 a Explain the following :
(i) Physical address (2.5)
(ii) Paging. (2.5)
OR
b Discuss the concept of virtual memory.
- 4 a Write about the file access methods.
OR
b Write a note on Distributed Systems.
- 5 a What is shell? Explain.
OR
b Explain Linux Environmental variable.

SECTION -B (45 Marks)

Answer any **THREE** questions

ALL questions carry **EQUAL** Marks (3 x 15 = 45)

- Explain the following scheduling algorithm :
- (i) FIFO (5)
(ii) SJF (5)
(iii) RR (5)
- 7 Write about Deadlock avoidance algorithm.
- 8 What is Page Replacement? Explain any one Page Replacement algorithm.
- Discuss :
- (i) Directory structure (7.5)
(ii) Remote Access (7.5)
- 10 Explain Linux File structure and system call.