

**PSG COLLEGE OF ARTS & SCIENCE  
(AUTONOMOUS)**

**MSc DEGREE EXAMINATION MAY 2018  
(Third / Fifth Semester)**

Branch –**SOFTWARE SYSTEMS**  
(Five year integrated)

**OPERATING SYSTEM**

Time: Three Hours

Maximum: 75 Marks

**SECTION -A (30 Marks)**

Answer **ALL** questions

**ALL** questions carry **EQUAL** Marks (5 x 6 = 30)

- 1 a Discuss briefly about parallel system.  
OR  
b What is System Call? Explain.
- 2 a What is critical region? Explain.  
OR  
b Discuss briefly about Deadlock Prevention.
- 3 a What is context switch? Explain.  
OR  
b Explain round robin scheduling.
- 4 a Discuss briefly about swapping.  
OR  
b List out the advantages / disadvantages of demand Paging.
- 5 a Discuss briefly about I/O Hardware.  
OR  
b Write short note on Disk Management.

**SECTION -B (45 Marks)**

Answer any **THREE** questions

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

- 6 Explain the following : (7+8)  
(i) System components (ii) Virtual machine
- 7 Explain classic problem of synchronization.
- 8 Explain Scheduling Algorithm.
- 9 Explain Demand Paging.
- 10 Describe the following : (8+7)  
(i) Directory structure (ii) Free Space Management

Z-Z-Z

END