Roll No. ....

Sub. Code : | 0 | 1 | 6 | 9 |

Exam. Code : | 0 | 0 | 0 | 2 |

B.A./B.Sc. (General) 2nd Semester
1048

COMPUTER APPLICATIONS
Paper–CA04 : Operating System Concepts

Time Allowed : Three Hours] **[Maximum Marks : 30**

Note :– Attempt **one** question each from Section A, B, C and D. Question No. **9** (Section E) is compulsory question.

SECTION–A

1. What are differences between clustered systems and distributed systems ? 6

2. Discuss the storage and I/O structure of operating system. 6

SECTION–B

3. Discuss in detail resource allocation graph. 6

4. Discuss the structure of PCB in detail. 6

SECTION–C

5. Discuss dynamic loading and linking in detail. 6

6. What do you understand by page replacement ? Discuss FIFO and optimal algorithms for page replacement. 6

SECTION-D

7. Discuss in detail free space management. 6

8. What are device drivers ? Differentiate interrupt driven and poll driven data transfers. 6

SECTION-E

9. Discuss the following in short :

 (a) Handheld systems

 (b) Scheduling criteria

 (c) Write a short note on swapping

 (d) Write disadvantages of linked file allocation method.

 1.5+1.5+1.5+1.5=6