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BV—04—2016
FACULTY OF COMPUTER STUDIES
M.Sc. (First Year) (Second Semester) EXAMINATION
OCTOBER/NOVEMBER, 2016
(CBCS Pattern)
SYSTEM ADMINISTRATION AND NETWORKING

(Operating System)

(Thursday, 17-11-2016)   **Time : 10.00 a.m. to 1.00 p.m.**

Time—3 Hours   *Maximum Marks—75*

N.B. :— (i) Write answers in brief and to the point.

       (ii) Assume suitable data, if necessary.

1. Attempt any *three* of the following :   3×5=15

   (a) What is operating system ? Explain basic terminologies in operating system.

   (b) Explain functions of Device Management.

   (c) Explain context switching in detail.

   (d) Explain single contiguous memory management technique.

   (e) Explain hierarchical machine view concept.

2. Answer the following (any *three*) :   3×5=15

   (a) Explain process state model.

   (b) Explain static partition specification.

   (c) Explain simple file system.

   (d) Explain race condition.

3. Solve any *three* of the following :   3×5=15

   (a) Explain Extended machine view concept.

   (b) Explain general model of the file system.

   (c) Explain relocatable memory management technique.

   (d) Explain direct access storage device.

P.T.O.

4. Answer the following (any *three*) : 3×5=15

   (*a*)   Explain paged-memory management.

   (*b*)   Explain PMT, MBT and JT.

   (*c*)   Explain deadlock with example.

   (*d*)   Explain multiprocessor system.

5. Write short notes on the following (any *three*) : 3×5=15

   (*a*)   Explain multiprogramming concept

   (*b*)   Channels and control units

   (*c*)   Dedicated devices

   (*d*)   I/O traffic controller

   (*e*)   Process Control Block (PCB).