BV—26—2016

FACULTY OF COMPUTER STUDIES

M.Sc. (SAN) (Second Year) (Third Semester) EXAMINATION

OCTOBER/NOVEMBER, 2016

(CBCS Pattern)

SYSTEM ADMINISTRATION AND NETWORKING

(Elective-III)

(Advanced Operating System)

(Saturday, 26-11-2016)   **Time : 2.00 p.m. to 5.00 p.m.**

Time—Three Hours   *Maximum Marks—75*

N.B. :— (i) *All* questions are compulsory.

      (ii) Write answers in brief and to the point.

1. Attempt any *three* of the following :   15

   (*a*) Explain architecture of UNIX.

   (*b*) Explain structure of the buffer pool.

   (*c*) Explain process states and transitions.

   (*d*) Explain file times.

   (*e*) Discuss allocating dynamic memory.

2. Answer the following (any *three*) :   15

   (*a*) Explain system structure in short.

   (*b*) Explain sticky bit.

   (*c*) Explain inodes.

   (*d*) Discuss scenarios for retrieval of a buffer.

3. Solve the following (any *three*) :   15

   (*a*) Explain symbolic links.

   (*b*) Explain process scheduling.

   (*c*) Explain stack-based allocations.

   (*d*) Discuss sigsetjmp and siglongjmp.

P.T.O.

4. Answer the following (any *three*) : 15

   (*a*)   Explain kill and raise functions.

   (*b*)   Explain thread scheduling.

   (*c*)   Explain locking memory.

   (*d*)   Discuss concept of pipes in short.

5. Write short notes on any *three* of the following : 15

   (*a*)   thread priority levels

   (*b*)   mkdir and rmdir

   (*c*)   users and groups

   (*d*)   the shell

   (*e*)   abort function.

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