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[5559]-185

S.E. (Computer Engineering) (II Semester) EXAMINATION, 2019
OPERATING SYSTEM AND ADMINISTRATION
(2012 PATTERN)

Time : Two Hours

Maximum Marks : 60

- N.B. :—** (i) Attempt Q. No. 1 or Q. No. 2, Q. No. 3 or Q. No. 4, Q. No. 5 or Q. No. 6, Q. No. 7 or Q. No. 8.
(ii) Neat diagrams must be drawn wherever necessary.
(iii) Figures to the right indicate full marks.
(iv) Assume suitable data, if necessary.

1. (a) What is the use of operating system ? Explain the operating system services. [6]
(b) Explain the architecture of the UNIX operating system. [6]

Or

2. (a) What is the use of kernel ? What are the different types of the kernels ? [6]
(b) What is the memory management ? Explain the different techniques of memory management. [6]
3. (a) Explain the organization of the file trees. [6]
(b) What is Python Scripting ? Explain different data types of Python. [6]

P.T.O.

Or

4. (a) Explain the following : [6]
(i) Kernel options
(ii) Multibooting.
(b) Explain mounting and unmounting in the file system. [6]
5. (a) Explain the following : [6]
(i) Kill command
(ii) Strace command.
(b) Explain the concept of process in detail. Explain the components of process. [7]
6. (a) How to deal with runaway processes ? How kill and signal can be used to deal with runaway processes ? [7]
(b) State and explain different signals in UNIX. [6]
7. (a) What is the LVM ? Explain the implementation of the LVM. [7]
(b) What are the advantages and disadvantages of the RAID model. [6]

Or

8. (a) What is the file system in Linux ? Explain the structure of the Linux file system. [7]
(b) Explain the different phases of storage hardware configuration. [6]