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S.E. (Computer Engineering) (Sem. I) EXAMINATION, 2019

OPERATING SYSTEM AND ADMINISTRATION

(2012 PATTERN)

Time : Two Hours

Maximum Marks : 50

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 and 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 Operating System ? Explain the operating system services. [6]
- (b) What is the use of kernel ? Draw and explain the block diagram of system kernel. [6]

Or

2. (a) What do you mean by user perspective ? Explain the file system structure with the help of diagram. [6]
- (b) Explain the architecture of the UNIX operating system. [6]
3. (a) How to mount file system ? Explain unmount command with options. [6]
- (b) What is bootstrapping ? Explain steps in boot process. [6]

P.T.O.

Or

4. (a) What is GRUB ? Explain GRUB boot process in detail. [6]
(b) Define File. Explain the organization of the file trees. [6]
5. (a) What is Shell ? Explain different types of shell. [6]
(b) Differentiate between program and process. Explain with neat diagram contents of a UNIX process image. [7]

Or

6. (a) What do you mean by nice and renice value ? What is dynamic monitoring with top ? [6]
(b) How to deal with runaway processes ? How kill and signal can be used to deal with runaway processes ? [7]
7. (a) What is the Storage Hardware ? Explain the Hierarchy of storage with diagram. [6]
(b) What is the LVM ? Explain the implementation of the LVM. [7]

Or

8. (a) Explain with the help of diagram the different levels of the RAID model. [6]
(b) What are the different steps of the disk partitioning ? What are the advantages and disadvantages of the multiple partitions ?