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[5057]-254**S.E. (Computer Engg.) (I Sem.) EXAMINATION, 2016****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, 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 *three* levels of unix architecture. [6]

Or

2. (a) How to change file permissions in unix ? Explain with suitable example. [6]
- (b) Explain the functionalities of kernel of the operating system. [6]

P.T.O.

3. (a) How new file system is mounted and unmounted in unix ?
Explain with example. [6]
- (b) Explain the difference between Perl and Python. [6]

Or

4. (a) Explain block devices and character devices in detail. [6]
- (b) Explain pipes and redirection in shell. [6]
5. (a) What is process ? Explain the life cycle of process in detail. [7]
- (b) Explain the different levels of RAID model with a neat diagram. [6]

Or

6. (a) What is the use of signal for processes ? Explain different signals in unix. [6]
- (b) Explain different storage hardware interfaces in detail. [7]
7. (a) Explain the following commands in detail : [6]
- (i) strace
- (ii) truss
- (iii) tusc.

- (b) Explain the structure of /etc/passwd file. Write different fields included in /etc/passwd. [7]

Or

8. (a) Explain role based access control system in detail. [7]
- (b) With the help of neat diagram, explain the relationship between various elements. [6]

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