Code: 9A05602

R09

B.Tech III Year II Semester (R09) Supplementary Examinations May/June 2016
UNIX INTERNALS
(Computer Science and Engineering)

Time: 3 hours

Max. Marks: 70

Answer any FIVE questions
All questions carry equal marks
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1 (a) Explain about various User Perspectives in UNIX system.
   (b) Explain the various options available with the grep command with an example.

2 (a) Write the advantages & disadvantages of buffer cache.
   (b) Write a scenario for searching a block which is not in cache for buffer allocation.

3   Discuss a system implementation that keeps track of free disk blocks with a bit map instead of a linked list of blocks. What are the advantages and disadvantages of this scheme?

4   Write short notes on:
   (a) File system abstractions.
   (b) File system maintenance.

5 (a) Discuss in detail about the system call interface.
   (b) Give brief description about the context of a process.

6 (a) Describe in detail about the awaiting process termination system calls.
   (b) Devise an algorithm for termination of a process in UNIX system.

7 (a) Device an algorithm for handling the protection fault handler.
   (b) Write short notes on Validity Fault Handler.

8 (a) Give brief description about the Disk Drivers.
   (b) Describe in detail about the Clists.

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