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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

- 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.
- 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.
