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B.Tech III Year II Semester (R09) Supplementary Examinations May/June 2017 UNIX INTERNALS

(Computer Science and Engineering)

Time: 3 hours Max. Marks: 70

Answer any FIVE questions All questions carry equal marks

- 1 Write short notes on the following:
 - (a) Process utilities.
 - (b) Disk utilities.
- 2 (a) Explain how searching is done in Hash Queue.
 - (b) Explain about *read* and *write* operations of Kernel to the Buffer.
- 3 (a) Explain the procedure of requesting & freeing disk blocks.
 - (b) Write and explain the algorithm for Freeing Inode.
- Design a system call that truncates an existing file to arbitrary sizes, supplied as an argument and describe an implementation.
- 5 (a) Explain the stack configuration for creating the system call.
 - (b) Write and explain the steps for context switch.
- 6 (a) Draw and explain the logical format of an executable file.
 - (b) Write a C program to implement the Setuid system call.
- 7 (a) Design an algorithm for swapper to swap the pages.
 - (b) Discuss in detail about the scheduling parameters used in process scheduling.
- 8 (a) Write an algorithm for Login for a I/O subsystem.
 - (b) Explain in detail about the stream for open operation.
