



M.Tech I Semester Regular & Supplementary Examinations January/February 2019

**ADVANCED OPERATING SYSTEMS**

(Common to DECS, ECE and DSCE)

(For students admitted in 2017 & 2018 only)

Time: 3 hours

Max. Marks: 60

Answer all the questions

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- 1 (a) Discuss in brief about the operating system services.
- (b) Explain any two high level features of the UNIX operating system in user perspective.

**OR**

- 2 Illustrate about the reading and writing disk blocks in a buffer cache with a neat diagram.
- 3 Describe in brief on UNIX file system and explain the various types of files with permissions.

**OR**

- 4 Explain in detail about the input/output process creation and termination in UNIX system.
- 5 Write short notes on pipes, streams and messages for inter process communication in UNIX with an example.

**OR**

- 6 Illustrate the semaphore concept in UNIX with a suitable program.
- 7 Discuss the programming using TCP/IP and internet protocols.
- 8 Illustrate the elementary socket system calls in UNIX with suitable examples.
- 9 Discuss in brief about the file structure and management of files in LINUX.

**OR**

- 10 (a) Write short notes on demand paging.
- (b) Discuss about the streams in LINUX with an example.

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