

R09

Code No: 56024

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B. Tech III Year II Semester Examinations, May - 2016

OPERATING SYSTEMS

(Common to ECE, ETM)

Time: 3 hours

Max. Marks: 75

**Answer any five questions
All questions carry equal marks**

- 1.a) Define operating system? Explain operating system structure.
- b) Explain briefly:
 - i) Overview of operating systems and
 - ii) Protection and security. [7+8]

- 2.a) Explain about algorithm evolution of process scheduling.
- b) Explain briefly about process management in LINUX. [7+8]

- 3.a) Explain briefly about critical section problem.
- b) Write a short note on atomic transactions. [8+7]

- 4.a) Define segmentation. Explain in detail.
- b) Write a short note on virtual memory. [7+8]

- 5.a) Write about deadlock avoidance.
- b) Explain briefly about recovery from deadlock. [7+8]

- 6.a) Write a short note on free space management.
- b) Explain briefly about allocation methods in File system. [7+8]

- 7.a) Write a short note on overview of mass-storage structure.
- b) Explain briefly about tertiary storage structure. [7+8]

- 8.a) How to implementing security defenses? Explain in detail.
- b) Write a short note on language-based protection. [7+8]

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