

B.TECH. SEM -VI INFO. TECH. 2014 COURSE (CBCS) :

SUMMER - 2018

SUBJECT: OPERATING SYSTEM

Day : **Friday**
Date : **01/06/2018**

S-2018-2428

Time : **02.30 PM TO 05.30 PM**
Max.Marks:60

N.B.

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.
- 3) Assume suitable data if necessary.

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- Q.1** a) What is operating system Objectives and functions? (05)
b) Discuss about the modern UNIX system. (05)
OR
What is virtual machine? Explain the evolution of operating system. (10)
- Q.2** Briefly explain Process and Thread Management in Linux. (10)
OR
a) Describe various state of process with diagram. (05)
b) Explain Process and Thread scheduling in detail. (05)
- Q.3** a) What is a deadlock? What are necessary conditions on operating system must satisfy for a deadlock to occur? (05)
b) Explain the different methods used to recover from deadlock. (05)
OR
a) Write a brief note on requirements for mutual exclusion. (05)
b) Describe: (05)
i) With deadlock.
ii) With a cycle but no deadlock.
- Q.4** a) Explain Android memory management. (05)
b) What is virtual memory? Explain in detail. (05)
OR
Explain memory management requirements and memory partitioning in detail. (10)
- Q.5** Briefly explain organization of the I/O function and operating system design issues. (10)
OR
a) Discuss about Disk cache. (05)
b) Write a brief note on Linux I/O. (05)
- Q.6** What is embedded operating system? Discuss about characteristics of embedded system. (10)
OR
a) Discuss about the service oriented operating system. (05)
b) Write short note on Ubuntu EDGE operating system. (05)

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