

B.TECH. SEM -VI INFO. TECH. 2014 COURSE (CBCS) :
WINTER - 2017
SUBJECT: OPERATING SYSTEM

Day : **Monday**
Date : **20/11/2017**

W-2017-2216

Time : **10.00 AM TO 01.00 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.

Q.1 What is Virtual machine? Explain the evaluation of operating system. (10)

OR

Explain Booting process of Linux operating system. (10)

Q.2 a) Explain concept of program and process. (05)

b) What is Threads? Discuss types of threads. (05)

OR

a) Explain concept of multithreading. (05)

b) What is scheduling? Explain in detail. (05)

Q.3 a) Explain the different methods used to recover from deadlock. (05)

b) Write a brief note on requirements for mutual exclusion. (05)

OR

Explain the Android Inter process communication mechanism and concurrency mechanism. (10)

Q.4 a) Discuss about the Dynamic partitioning. (05)

b) What is Virtual memory? Explain in detail. (05)

OR

Distinguish between Linux memory management and windows memory management. (10)

Q.5 a) What is Android operating system? Explain Android file management. (05)

b) Explain Linux Virtual file system. (05)

OR

a) Briefly explain Disk scheduling and Disk cache. (05)

b) Write short note on: (05)

i) File sharing.

ii) Record Blocking.

Q.6 a) Discuss about the Linux Kernel module. (05)

b) Briefly discuss about the service oriented operating system. (05)

OR

What is embedded operating system? Discuss about characteristics of embedded system. (10)

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