

**MCA-4thSem**  
**Advanced Operating System**  
**Subject Code - MCA404**

(RP)

Time allowed: 3 Hrs

M118  
(2012-2015 batch)

Max Marks: 60

**Important Instructions:**

- All questions are compulsory
- Assume any missing data

**PART A (2×10)**

Q. 1. Short-Answer Questions:

All COs

- (a) What is load balancing?
- (b) Differentiate SRAM and DRAM.
- (c) Explain the term grid monitoring.
- (d) Explain the concept of logical clock.
- (e) What do you mean by periodic task?
- (f) What do you mean by energy aware cpu scheduling?
- (g) I/O versus Memory Bus.
- (h) What is meaning of cluster computing?
- (i) What is mobile computing?
- (j) What is IPC.?

**PART B (8×5)**

Q. 2. List and explain the goals of distributed operating System  
OR

CO1

Explain in brief the term multi-processor and distributed os.

CO1

Q. 3. Explain the three approaches to develop operating System  
OR

CO2

Describe Rate Monotonic Scheduling Algorithm

CO2

Q. 4. Discuss the architecture of grid.

CO3

OR

Write principal for the design of high performance network Subsystem?

CO3

Q. 5. Explain a) iPhone  
b) Windows mobile OS

CO4

OR

Explain the NAS and SAN and also differentiate them.

CO4

Q. 6. Explain the issues in mobile computing.  
OR

CO4

Describe the grid scheduling paradigms.

CO3