

**SUBJECT CODE NO:- P-8153**  
**FACULTY OF ENGINEERING AND TECHNOLOGY**  
**M.E.(Comp. Sci. & Engg.) Examination MAY/JUNE-2016**  
**Internal of Operating System**  
**(Revised)**

[Time:Three Hours]

[Max Marks:80]

“Please check whether you have got the right question paper.”

- N.B
- 1) Solve any two questions from each section.
  - 2) Assume suitable data if necessary.

**Section A**

- |     |                                                                                                          |    |
|-----|----------------------------------------------------------------------------------------------------------|----|
| Q.1 | a) What is cloud computing? Describe securing and isolating services in detail.                          | 10 |
|     | b) Explain the windows azure architecture? How it is different from windows?                             | 10 |
| Q.2 | a) What is system call in Linux? Explain the working of any system call in detail with suitable diagram. | 10 |
|     | b) Explain file system of Linux in detail.                                                               | 10 |
| Q.3 | a) Explain thread management in windows describe different data structure used.                          | 10 |
|     | b) Describe memory management of windows in detail.                                                      | 10 |

**Section B**

- |     |                                                                                  |    |
|-----|----------------------------------------------------------------------------------|----|
| Q.4 | Write short notes ( <u>any two</u> )                                             | 20 |
|     | i) Load balancing in parallel system.                                            |    |
|     | ii) Shared memory multiprocessors.                                               |    |
|     | iii) Windows CE.                                                                 |    |
|     | iv) Security ratings                                                             |    |
| Q.5 | a) What are design challenges in EOS? Differentiate EOS with general purpose OS. | 10 |
|     | b) Compare RT Linux kernel with Linux kernel.                                    | 10 |
| Q.6 | a) Explain windows security components in detail. Describe security policy.      | 10 |
|     | b) How to make an OS secure? Explain system evaluation criteria.                 | 10 |