**SUBJECT CODE NO:- P-8138**
**FACULTY OF ENGINEERING AND TECHNOLOGY**
**M.E. (Comp.Sci.& Engg.) Examination May/June 2017**
**Internal of Operating System**
**(Revised)**

[Time : Three Hours]                                                                                                    [Max Marks :80]

Please check whether you have got the right question paper.

N.B        i) Solve any two questions from each section.

## Section A

| | | | |
|---|---|---|---|
| Q.1 | a) | Explain the scheduling in Linux operating system? | 10 |
| | b) | Explain with example how file and directories are maintained in Linux? | 10 |
| | | | |
| Q.2 | a) | Explain windows Azure OS architecture in detail? | 10 |
| | b) | Explain isolation services and data reliance in windows Azure OS? | 10 |

Q.3    Write short notes (Any four)                                                                                        20
   i.    Local Procedure calls
   ii.   Heap manager
   iii.  I/O management in windows
   iv.   Virtual memory in windows
   v.    Thread synchronization in windows.

## Section B

| | | | |
|---|---|---|---|
| Q.4 | a) | What are main features of RT Linux kernel? How it is different from Linux kernel? | 10 |
| | b) | Explain design issues of E OS? | 10 |
| Q.5 | a) | How security auditing is carried out in windows and Linux? | 10 |
| | b) | Explain different account rights and policies in detail? | 10 |

Q.6    Write short notes (Any four)                                                                                        20
   i.    Loud Balancing
   ii.   Cache coherence
   iii.  Multi micro kernel
   iv.   Steps in parallelization process
   v.    Concurrency management

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