CODE NO:- Z-8155

FACULTY OF ENGINEERING & TECHNOLOGY
M.E (CSE)Year Examination - June – 2015
Internal Of Operating System
(Revised)

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

"Please check whether you have got the right question paper."
    i)   Solve <u>any two</u> questions from each section.
    ii) Assume Suitable data, if necessary & state it clearly.
    iii) Answers should be precise.

SECTION-A

Q.1 a) Briefly explain the window's architecture with a neat diagram   10
     b) Explain PFN database & page states. Also explain state diagram for page frames.   10

Q.2 a) Write a macro to insert a new task-struct. Explain insertion with a neat diagram. 10
     b) What are the different scheduling policies of a linux schedular? Explain data structures used by the   10
         schedular.

Q.3 a) What is cloud computing ? Explain how data of multiple tenants is handled in cloud .   10
     b) What does Azure fabric controller mean ? What are the roles and responsibilities of the fabric   10
         controller?

SECTION-**B**

Q.4 a) Explain parallelization process with an example . what are its goals ?   10
     b) Explain the cache coherence problem with example .Also give its solution thruogh bus snooping .   10

Q.5 a) What are the design challenges in real time OS.? What are the differences between RTOS & GPOS.   10
     b) Write short notes on :   10
             a) RT Linux
             b) QNX
             c)   Vx works
             d) Lynx OS
             e) Window CE

Q.6 a) Explain different security components of Linux and windows. Which OS is more secure ? Justify .   10
     b) What are the criterias of evaluating a trusted computer system ? What is the security auditing   10
         mechanism in windows.