**OPERATING SYSTEM**

**SAMPLE MIDSEM QUESTIONS**

Note: The question paper contains both short and long questions. Pls. note that there is no fixed rule regarding number and type of questions. It may contain only short questions or only few long questions. There is no choice and you have to answer all question. Pls. understand the concepts well.

1. Differentiate between abstract resource (or logical resource) and physical resource. Give two examples of each.
2. When is batch processing a preferred strategy ? And when timesharing is preferred strategy ?
3. Explain the relationship between a program and a process. In this difference important in serial (single-process) operating systems ? Why and why not ?
4. Explain the options that are available to the operating system designer regarding process creation and termination.
5. Explain the terms “mechanism” and “policy”. Why is the separation of mechanism and policy a desirable principle ?
6. Some early computers protected the operating system by placing it in a memory partition that could not be modified by either the user job or the operating system itself. Describe two difficulties that you think could arise with such a scheme.
7. On early comuters, every byte of data read or written was directly handled by by the CPU (there was no DMA). What implications does this organization have for multi programming ?