Total No. of Pages: 02 Roll No.

Total No. of Questions: 09

PGDCA (Sem.-1st)

COMPUTER OPERATING SYSTEM

Subject Code: PDCA-103 (2012 Batch)

Paper ID: [B0143]

Time: 3 Hrs. Max. Marks: 60

INSTRUCTION TO CANDIDATES:

- SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
- SECTION-B contains FIVE questions carrying FIVE marks each and students has to attempt any FOUR questions.
- SECTION-C contains THREE questions carrying TEN marks each and students has to attempt any TWO questions.

SECTION-A

l. Write briefly:

- a) Explain the difference between a program and a process.
- b) Expand SPOOL.
- c) What are the various memory allocation schemes?
- d) What is a distributed operating system?
- e) Discuss the methods used for authentication.
- f) Explain logical address.
- g) List the three functions of resource management.
- h) What is a kernel?
- i) What do you mean by inter-process communication?
- j) What are the advantages of having a partition?

SECTION-B

- 2. The modern day OS are based on following mechanisms: (Briefly Explain)
 - a) Multitasking
 - b) Multiprogramming
- 3. Differentiate between virtual memory and physical memory.
- 4. Differentiate between pre-emptive and non-preemptive process scheduling algorithms.
- 5. Explain TRAP vs INTERRUPT.
- 6. Explain the process of segmentation with the help of an example.

SECTION-C

- 7. "The modern day operating systems (OS) have evolved after continuous development". List the important milestones you observe in the development of modern day OS.
- 8. What is file system? Explain file protection and allocation methods.
- 9. What is the difference between I/O mapped input/output and memory mapped input/output? What are the advantages and disadvantages of each?