Visit www.brpaper.com for downloading previous years question papers of B-tech, Diploma, BBA, BCA, MBA, MCA, Bsc-IT, M-Tech, PGDCA, B-com

			1			
			1			
			1			
Roll No			l			

Total No. of Questions: 07 Total No. of Pages: 01

BCA (Sem. 4)
OPERATING SYSTEMS
Subject Code: BSBC-403
Paper ID: B0242

Time: 3 Hrs. Max. Marks: 60

## INSTRUCTIONS TO CANDIDATES:

- 1. Section A is COMPULSORY consisting of TEN questions carrying TWO marks each.
- 2. Section B contains SIX questions carrying TEN marks each and students have to attempt any FOUR questions.

## **SECTION A**

- 1. Explain Briefly:
  - a) What are the different operating systems?
  - b) What is kernel?
  - c) What is dead lock?
  - d) What is a process?
  - e) What are the states of a process?
  - f) What is starvation and aging?
  - g) What is semaphore?
  - h) What is context switching?
  - i) What is a thread?
  - j) What is process synchronization?

## **SECTION B**

- **2.** What are the various deadlock conditions? Explain in detail. Also write banker algorithm.
- **3.** Explain demand paged memory management in detail.
- **4.** What are semaphores? How are they implemented?
- **5.** Discuss in detail internal and external fragmentation.
- **6.** What is the Algorithm to avoid deadlock? Discuss with Example.
- **7.** Write short note on following:
  - a) Swapping
  - b) Security of file systems

M10068 Page 1 of 1