

S.D.E.

B.B.A. (2006 Course) Sem-VI : WINTER - 2018

SUBJECT: ELECTIVE-III: e) OPERATING SYSTEMS (SYSTEMS)

Day : Monday
Date : 03/12/2018

Time 10.00 AM TO 1.00 PM
Max. Marks: 80

W-2018-4489

N.B.

- 1) Attempt **ANY FIVE** questions from Section-I and **ANY TWO** questions from Section-II.
- 2) Figure to the right indicate **FULL** marks.
- 3) Answer to the both sections should be written in **SEPARATE** answer book.

SECTION-I

- Q.1** Explain user's view of operating system in detail. (10)
- Q.2** What is inter-process synchronization? Give the need for inter-process synchronization. (10)
- Q.3** What is the need of virtual memory? Explain the process of converting logical address into physical address with the help of page table. (10)
- Q.4** Explain various file organizations with their merits and demerits. (10)
- Q.5** Explain the terms: (10)
- a) Device controllers
 - b) Interrupt handlers
 - c) Device drivers
- Q.6** Explain various operating system services for process management. (10)
- Q.7** Write short notes on **ANY TWO** of the following: (10)
- a) Client server architecture
 - b) Semaphore
 - c) Device independent I/O software

SECTION-II

- Q.8** What is Direct Memory Access? Explain the DMA transfer in detail. (15)
- Q.9** Discuss the following scheduling algorithms with suitable example: (15)
- a) First come First served scheduling
 - b) Shortest Job First scheduling
 - c) Round Robin scheduling
- Q.10** What is deadlock? State the necessary conditions for deadlock. Explain strategies to avoid it. (15)

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