

**T.Y. B. SC. (Computer Science) SEM –V (CBCS - 2016 COURSE) :
WINTER - 2018**

SUBJECT : OPERATING SYSTEM

Day : Wednesday
Date : 10/10/2018

Time : 03.00 PM TO 06.00 PM
Max. Marks : 60

W-2018-0929

N.B.

- 1) All questions are **COMPULSORY**.
- 2) Figures to the **RIGHT** indicate **FULL** marks.

Q.1 Answer **ANY TWO** of the following. **(12)**

- a) Describe different types of directories.
- b) Illustrate SJF and FIFO scheduling algorithm with suitable example.
- c) Explain page replacement algorithm with FIFO and Least recently used (LRU) algorithm.

Q.2 Answer **ANY TWO** of the following. **(12)**

- a) Define paging. Explain page table implementation in brief.
- b) Describe linked and indexed allocation methods of file.
- c) What is deadlock? Explain the deadlock prevention of strategies.

Q.3 Answer **ANY TWO** of the following. **(12)**

- a) Define system call. Explain different types of system call.
- b) Illustrate simple monitor concept.
- c) Describe different attributes and types of file.

Q.4 Answer **ANY THREE** of the following. **(12)**

- a) Explain buffering and spooling concept.
- b) Write direct and sequential file access methods.
- c) Describe various services of operating system.
- d) Differentiate between preemptive and non-preemptive algorithm.

Q.5 Answer **ANY FOUR** of the following. **(12)**

- a) Write a note on demand paging.
- b) How are interrupts handled?
- c) What are the different operations of directory?
- d) Explain swapping and overlap swapping.
- e) Write note on segmentation.
- f) Explain any three types of operating system.

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