

T.Y.B.SC. (COMPUTER SCIENCE) SEM –V (2014 COURSE)

: SUMMER - 2018

SUBJECT: OPERATING SYSTEM

Day: **Tuesday**
Date: **10/04/2018**

S-2018-0855

Time: **03.00 PM TO 05.00 PM**
Max. Marks: 40

N.B.:

- 1) All questions are **COMPULSORY**.
 - 2) Figures to the right indicate **FULL** marks.
 - 3) Draw neat labelled diagrams **WHEREVER** necessary.
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Q.1 Answer **Any TWO** of the following: **(10)**

- a) Describe sequential and direct access methods.
- b) Explain Round Robin scheduling algorithm with an example.
- c) What is a system call? Explain types of system call.

Q.2 Answer **Any TWO** of the following: **(10)**

- a) Explain Indexed allocation method in detail.
- b) What is deadlock? What are the conditions for deadlock occurrence?
- c) Write a note on Swapping.

Q.3 Answer **Any TWO** of the following: **(10)**

- a) Explain criteria in CPU scheduling.
- b) Illustrate Demand paging in detail.
- c) Describe single level directory and tree structure directories.

Q.4 Answer **Any FIVE** of the following: **(10)**

- a) What is an operating system?
- b) Define file.
- c) What is interrupts?
- d) List the functions of an operating system.
- e) Define CPU scheduling.
- f) What is memory partitioning?
- g) Compare between FCFS and SJF scheduling algorithms.

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