

**SUBJECT: OPERATING SYSTEM**

Day: Monday  
Date: 08/04/2019

**S-2019-1149**

Time: 12.00 NOON TO 02.00 PM  
Max Marks: 40

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**N.B:**

- 1) All questions are **COMPULSORY**.
  - 2) Figures to the right indicate **FULL** marks.
  - 3) Draw neat and labeled diagram **WHEREVER** necessary.
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**Q.1** Attempt **ANY TWO** of the following: **(10)**

- a) Explain the different types of file allocation methods.
- b) Describe the Round Robin algorithm with suitable example.
- c) Illustrate the different functions of an operating system.

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

- a) Explain simple monitor concept in detail.
- b) Describe any one page replacement algorithm with example.
- c) Explain how deadlock can be handled.

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

- a) Explain different types of files.
- b) Describe different operations on directory.
- c) Write a note on multiple partition.

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

- a) What is paging?
- b) Write different types of directory.
- c) Define Buffering and Spooling.
- d) Compare between FCFS (First Come - First Serve) and SJF (Shortest Job First).
- e) What are system calls?
- f) What is CPU protection?
- g) Define Operation System.

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