

# **RAN-1212**

# Third Year B.Sc. (Semester-VI) Examination

March / April - 2019

**Computer Science: Paper-606** 

(Operating System -II)

### Q. 1 Answer the Following

Subject Code No.:

14

Student's Signature

- 1 Explain Belady's Anomaly.
- 2 List the four conditions which causes deadlock to occur.
- 3 What information does PCB hold?
- 4 Explain the importance of context switch in process.

2

- 5 Explain the role of valid and invalid bit in a page table.
- What does segment table base register and segment table length register indicates in a segment table?
- 7 Explain the commands Pipe and getpid.

#### Q. 2 Answer the following ANY TWO

14

- 1 Explain the term process? Explain the various stages of process.
- 2 Explain Deadlock prevention in detail.
- Explain the importance of scheduling in process management? Explain any one scheduling algorithm.

**RAN-1212** [ 1 ] [ P.T.O. ]

## Q3 Answer the following ANY TWO

**12** 

- 1 Explain Segmentation in detail with proper example.
- 2 If the Reference string is: 0 1 2 3 0 1 4 0 1 2 3 4 and we have physical memory of 3 frames, then calculate page faults using FIFO Algorithm.
- 3 If the Reference string is: 1 2 3 2 1 5 2 1 6 2 5 6 3 1 3 6 1 2 4 3 and we have physical memory of 3 frames, then calculate page faults using LRU Algorithm.

#### Q4 Answer the following ANY TWO

**10** 

- 1 Explain Memory commands in Unix.
- 2 Explain the structure of file in Unix.
- 3 Differentiate between Physical and logical address.

[2] [360]