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**NBR-003-1072004**

Seat No. \_\_\_\_\_

**M.C.A. (Sem. II) (CBCS) Examination**

**April / May – 2017**

**P2040 : Operating System & Linux Programming**

**Faculty Code : 003**

**Subject Code : 1072004**

Time :  $2\frac{1}{2}$  Hours]

[Total Marks : 70

**Instruction :** Write answers of all the questions in main answer sheet.

- 1 (a) Attempt the Following Objective questions : 4
- (1) Full form of RR.
  - (2) What is OS?
  - (3) What is turn-around time?
  - (4) Full form of SJF.
- (b) Attempt any one out of two from the following Objective questions : 2
- (1) Explain deadlock recovery
  - (2) Differentiate Process V/s. Thread.
- (c) Attempt any one out of two from the following Objective questions : 3
- (1) Explain Scheduling.
  - (2) Explain FCFS scheduling algorithm.
- (d) Attempt any one out of two from the following Objective questions : 5
- (1) Explain types of thread.
  - (2) Explain Process and its state in detail.

- 2 (a) Attempt the Following Objective questions : 4
- (1) What is file?
  - (2) What is standard input?
  - (3) What is physical Address?
  - (4) Types of file.
- (b) Attempt any one out of two from the following Objective questions : 2
- (1) Explain virtual memory.
  - (2) Describe use of Piping.
- (c) Attempt any one out of two from the following Objective questions : 3
- (1) Explain paging.
  - (2) Explain FCFS Page replacement Algorithm.
- (d) Attempt any one out of two from the following Objective questions : 5
- (1) Explain Demand paging and segment.
  - (2) Explain Swapping in detail.
- 3 (a) Attempt the Following Objective questions : 4
- (1) Which command is used to copy contain of file ?
  - (2) Which command prints current working directory?
  - (3) Which command is used to save terminal work?
  - (4) Which command prints starting 10 lines of file ?
- (b) Attempt any one out of two from the following Objective questions : 2
- (1) Explain cat command
  - (2) Explain touch command.
- (c) Attempt any one out of two from the following Objective questions : 3
- (1) Explain touch command.
  - (2) Differentiate head and tail command.

- (d) Attempt any one out of two from the following Objective questions : 5
- (1) Describe given commands (Chmod, Chown and chgrp)
  - (2) Explain any three basic linux commands.
- 4 (a) Attempt the Following Objective questions : 4
- (1) How can we terminate process forcefully?
  - (2) Which command is used to join two file?
  - (3) Which command is used to compare two files?
  - (4) Which is used to translate or replace existing character?
- (b) Attempt any one out of two from the following Objective questions : 2
- (1) Explain sort command.
  - (2) Explain od command.
- (c) Attempt any one out of two from the following Objective questions : 3
- (1) Explain uniq command with options.
  - (2) Explain cmp and comm command with options.
- (d) Attempt any one out of two from the following Objective questions : 5
- (1) Explain tr command with piping example.
  - (2) Describe grep with example.
- 5 (a) Attempt the Following Objective questions : 4
- (1) How to delete current line.
  - (2) How to copy current line.
  - (3) Which command used to save vi file?
  - (4) How to move next paragraph.

- (b) Attempt any one out of two from the following Objective questions : 2
- (1) Explain string operator.
  - (2) Use of back quote sign ( ' ) in editor.
- (c) Attempt any one out of two from the following Objective questions : 3
- (1) Write a shell script to count even and odd number.
  - (2) Explain echo and read command with example.
- (d) Attempt any one out of two from the following Objective questions : 5
- (1) Explain different type of vi editor mode.
  - (2) Write a Shell Script to enter any number and print reverse.
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