Total No. of Questions: 09

# B.Tech. (IT) (Sem.-6) NETWORK OPERATING SYSTEM

Subject Code: IT-326 (2007 & onward batches)

**Paper ID** : [A0527]

Time: 3 Hrs. Max. Marks: 60

#### **INSTRUCTION TO CANDIDATES:**

- 1. SECTION-A is COMPULSORY.
- 2. Attempt any FOUR questions from SECTION-B.
- 3. Attempt any TWO questions from SECTION-C.

**SECTION-A** 
$$(10 \times 2 = 20 \text{ Marks})$$

- 1. Write short notes on :
  - (a) Define a Shell.
  - (b) Give an echo command to display this message:

- (c) What does the test-s file means?
- (d) What is the output of the pwd command after the following sequence of cd commands have been issued?

\$ cd/usr/local

\$ cd bin

\$ cd ../../tmp

\$ cd

(e) Fill with the correct operator

#!/bin/sh

smallest = 10000

for i in 5 8 19 8 7 3; do

if test \$i ...... \$ smallest; then

smallest=\$i

fi

done

echo \$smallest

- (f) Which of the following are valid variable names?
  - a. \_FRUIT\_BASKET
  - b. 1 APPLE A DAY

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- c. FOUR-SCORE&7YEARS AGO
- d. Variable
- (g) Give an echo command to display one line containing the following fields:
  - a. The contents of variable \$USER
  - b. A single space
  - c. The word "owes"
  - d. Five spaces
  - e. A dollar sign (\$)
  - f. The contents of the variable \$DEBT (this variable contains only digits)
- (h) What is Shell Scripting?
- (i) Which command can be used to duplicate a process or to create a child process? Give example.
- (j) Name at least two of the debugging tools available in LINUX.

## **SECTION-B** $(4 \times 5 = 20 \text{ Marks})$

- 2. Write a shell script in Linux to prepare Student Result Card. Mention all the assumptions made.
- 3. Write a shell script to display

0

1 0

2 1 0

3 2 1 0

4 3 2 1 0

- 4. What are the features which are common to Bourn and TC Shells? Describe.
- 5. Define a process. How do the processes communicate among each other?
- 6. Describe the Linux file system.

### **SECTION-C** $(2 \times 10 = 20 \text{ Marks})$

- 7. What is an editor? What are the different types of editors? Discuss their features and the various types of commands available in the command mode.
- 8. Compare Linux with atleast two other Operating Systems of your choice. What is so good about Linux? Give some additional features of Linux.
- 9. What are the various Programming Tools available in Linux? Discuss the control structures used in shell programming.

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