



**LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034**

**B.Sc. & B.C.A. DEGREE EXAMINATION – COMPUTER SCIENCE & COMPUTER APP.**

**FIFTH SEMESTER – NOVEMBER 2014**

**CS 5406/CA 5406 - LINUX AND SHELL PROGRAMMING**

Date : 12/11/2014

Dept. No.

Max. : 100 Marks

Time : 09:00-12:00

**PART-A**

**Answer ALL the questions:**

**(10x2=20 Marks)**

1. What is Linux?
2. Write the types of shells.
3. List out any two file conditions.
4. Give any four Linux shell commands.
5. Define : process.
6. Write any four commonly used conversion specifiers of printing.
7. Define: pipe.
8. What is a named pipe?
9. What are the types of semaphore?
10. Write the syntax to create a socket.

**PART-B**

**Answer ALL the questions:**

**(5x8=40 Marks)**

11. a) Write in brief about Redirections with an example.  
(OR)  
b) What is a variable? Explain in brief about environment variables.
12. a) Explain the for and while control structures with examples  
(OR)  
b) Give short notes on arithmetic and Parameter expansion with examples.
13. a) List the standard I/O libraries.  
(OR)  
b) Explain in short about the standard libraries and system calls used for files and directories maintenance.
14. a) Write about date and time augments with examples  
(OR)  
b) Explain named pipe with a suitable example.
15. a) Write short notes on semaphores.  
(OR)  
b) Write about message queue functions.

**PART-C**

**Answer any TWO questions:**

**(2x20=40 Marks)**

16. a) Discuss about Shell Programming with example.  
b) Explain about condition statements with example.
  
17. a) Discuss in detail about File locking.  
b) Explain about FIFO with an example.
  
18. a) Write in detail about shared memory with an example  
b) Discuss about sockets.

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