



LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

M.Sc. DEGREE EXAMINATION – COMPUTER SCIENCE

FIRST SEMESTER – APRIL 2017

CS 1826- LINUX PROGRAMMING

Date: 05-05-2017
Time: 09:00-12:00

Dept. No.

Max. : 100 Marks

PART-A

Answer all the questions:

10X2=20 Marks

1. What is Shell?
2. Define the term shell script.
3. List any two error code of exit command.
4. Give any four shell script general purpose commands.
5. What is dynamic memory?
6. List any two differences between physical memory and logical memory.
7. What is a pipe?
8. List any two types of Inter Process Communications.
9. What are the types of semaphore?
10. List the types of host and network byte ordering.

PART-B

Answer all the questions:

5X8=40 Marks

11. a) List the characteristics of Linux.
(OR)
b) What is a variable? Explain in brief about Parameter variable with an example.
12. a) Explain in brief about library functions with examples.
(OR)
b) Briefly discuss on any two condition statement in Linux with examples.
13. a) Write in brief about environment variables.
(OR)
b) Explain in brief about simple memory allocation.
14. a) Write in short about File Locking with an example.
(OR)
b) Explain in brief about process structure with a neat diagram.
15. a) Write the various functions of shared memory with examples.
b) Write about message queue functions.

PART-C

Answer any two questions:

2X20=40 Marks

- 16. a) Discuss about pipes and redirections with example.
 - b) Explain in detail about Linux file structure.
- 17. a) Discuss in detail about File locking mechanism available in Linux.
 - b) Explain about First In First Out with an example.
- 18. a) Explain about parent and child process using fork system call.
 - b) Discuss in detail about socket and its types with examples.

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