

ANNA UNIVERSITY COIMBATORE  
B.E. / B.TECH. DEGREE EXAMINATIONS : DECEMBER 2009  
REGULATIONS - 2007  
FIFTH SEMESTER : COMPUTER SCIENCE & ENGINEERING  
070230048 - OPEN SOURCE SYSTEMS

TIME : 3 Hours

Max.Marks : 100

PART – A  
(20 x 2 = 40 MARKS)  
ANSWER ALL QUESTIONS

1. Mention the advantages and disadvantages of FOSS
2. Identify the difference between ext2 and ext3 file systems.
3. What are the functionalities of /var and /boot file directories?
4. How to assign a user namely u1 and u2 to the group g2 and g1 respectively.
5. How to install software from binary package?
6. Mention the commands used for copying the data over networks.
7. Define tuples and sequences in python with an example.
8. What are techniques used to install firewall in Linux?
9. What are differences between shared and static libraries?
10. Why update operation done before commit in repository?
11. What are the CVS related Environmental variables?
12. What are the different portions of kernel memory in Linux?
13. What are the steps to be followed in making a file?
14. Mention the advantages of X windows.
15. Write the features of GRUB loader.
16. Define Valgrind.
17. What are the different types of buttons used in gtk+?
18. What are the features of Qt?
19. Mention the purpose of back trace in ddd.
20. What are the various ways to embedded php in HTML coding?

PART – B

(5 x 12 = 60 MARKS)

ANSWER ANY FIVE QUESTIONS

21. a With neat sketch explain PAM architecture 6  
b List the commands for extracting the Configuration and Logging in details 6
22. a Describe about the samba file server configuration in Linux. 6  
b Explain the steps involved in installing the software from source code. 6
23. a Explain about squirrel mail configuration in Linux. 6  
b Describe about CUPS architecture used in Printer 6
24. a Describe about the setting up a firewall in Linux 8  
b Explain about gcc compiler 4
25. a Describe about valgrind GNU graphical debugger 6  
b Write a gtk program for centering the window and explain it 6
26. Explain about slots and signals with an example in QT
27. a Explain about X window server architecture. 6  
b Write a python programming to find whether the given number is prime number or not 6
28. a Describe about breakpoint and watchpoint in gdb with an example 6  
b Explain about dynamic shared object libraries with an example 6