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Question Paper Code : 41173

B.E./B.Tech. DEGREE EXAMINATION, NOVEMBER/DECEMBER 2013.

Eighth Semester

Computer Science and Engineering

080230059 – OPEN SOURCE TOOLS AND COMPONENTS

(Regulation 2008)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. What is GNU/Linux distribution? Give few examples.
2. What are the command line tools for Linux user/group management?
3. What is squid?
4. What are the commands to play music files in text mode in Linux distributions?
5. Why should Linux administrators want to configure their firewalls?
6. What is the difference between a patch and a duff file?
7. How to restart Apache web server?
8. What is meta object facility?
9. What are the striking features of Qt?
10. What are the typedefs provided by GLib?

PART B — (5 × 16 = 80 marks)

11. (a) List down the important configuration files on a Linux system that control user permissions, system applications, daemons, services, and other administrative tasks in a multi-user, multi-tasking environment. Explain any four of them elaborately. (16)

Or

- (b) What are the benefits of FOSS as compared to proprietary software? What are the motivations for participating in open source development? Compare free and open source software. (16)

12. (a) Explain briefly how a Linux sysadmin will set up Mail services. (16)

Or

(b) Write a short description on the Linux boot up process. (16)

13. (a) How does the netfilter/iptables IP packet filtering system work? (16)

Or

(b) What is source code management? Explain the tools available in Linux to manage source code versioning and management. (16)

14. (a) Explain OMG's Model Driven Architecture. (16)

Or

(b) Demonstrate with code how to create and invoke a web service using Apache. (16)

15. (a) Explain the X Window architecture. Give examples of X-Server, Window Manager, Widget Set, and Desktop Environment. (16)

Or

(b) Write a graphical GTK+ program in any programming language of your choice to demonstrate a simple drawing example. (16)