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<b>Question Paper Code : 84585</b>
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B.E./B.Tech. DEGREE EXAMINATIONS, NOVEMBER/DECEMBER 2021.

Eighth Semester

Computer Science and Engineering

080230059 — OPEN SOURCE TOOLS AND COMPONENTS

(Regulations 2008)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. List the different versions of Linux.
2. Write a shell command to move a file from dir1 to dir2.
3. What is an X window System?
4. What is a proxy server? How to set it?
5. Why should Linux administrators want to configure their firewalls?
6. What is the difference between a patch and a duff file.
7. What are the Goals of Model Driven Architecture (MDA)?
8. Distinguish between Platform Independent Model (PIM) and meta Platform Independent Model (metaPIM).
9. Give the advantages of Thin-Client computing.
10. What is the purpose of GTK+ widgets?

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) (i) Explain the Linux OS boot up process. (8)  
(ii) What is CUPS? Explain its uses. (8)

Or

- (b) (i) Explain the issues in configuring additional hardware in Linux. (8)  
(ii) Explain the process of setting up an email server in Linux. (8)
13. (a) Explain the following :  
(i) Enumerate various types of firewalls and discuss any one in detail. (8)  
(ii) Using CVS to manage source code revisions patch and diff. (8)

Or

- (b) (i) Discuss the setting up of firewall using net filters and ip tables. (8)  
(ii) Write a note on Assembler (gas). (8)
14. (a) (i) Discuss the genesis of Model driven Architecture. (8)  
(ii) Enumerate the features offered by MOP (Meta Object Facility). (8)

Or

- (b) Discuss the features offered by Apache web servers and compare it with any other web server you know with respect to security offered, dynamic content management, user space management, administration console and compatibility for IPV6. (16)
15. (a) Explain the Xwindows Server architecture. (16)

Or

- (b) List the different Gtk+ Layout management and highlight their features. (16)

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