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Question Paper Code : 11172

B.E./B.Tech. DEGREE EXAMINATION, APRIL 2014.

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.   List down the four independent management groups of PAM.

2.   What is Mount Point?

3.   List any three practical applications of SAMBA.

4.   Define Squid.

5.   List the weakness of packet filters.

6.   Write the purpose of IP tables and give any two applications.

7.   Differentiate between model and metamodel in MDA.

8.   List down the features offered by MOF (Meta Object Facility).

9.   Give the advantages of Thin-Client computing.

10. What is the purpose of GTK+ widgets?

PART B — (5 × 16 = 80 marks)

11. (a) (i)   What are the functions of TCP/IP.   (8)

          (ii) Discuss the strength and weakness of Free open source Software.
                                                                          (8)

                                      Or

     (b) (i)   Discuss the issues in connecting to Internet through Dialup, DSL,
                Ethernet and Leased line.   (8)

          (ii) Why partitions are essential for OS? Discuss the major partitions in
                Linux Operating System.   (8)

12. (a) (i) What is the role of DNS in mail delivery. (8)

      (ii) Discuss X window system configuration and utilities. (8)

Or

  (b) (i) Differentiate IMAP and POP 3 services. (8)

      (ii) List down the features of CUPS. (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) Write a note on the following :

      (i) Platform Independent model and Platform Specific Model. (8)

      (ii) Compare MOF and UML. (8)

Or

  (b) (i) What are the benefits of Using Model Driven Architecture? List some open source MDA tools. (8)

      (ii) How to extension of web sewer using CGI (Common Gateway Interface) differ from other approaches. (8)

15. (a) (i) Enumerate the GTK+ Libraries. (8)

      (ii) Define Signal event and callback in GTK+. (8)

Or

  (b) (i) Give the salient features of Qt Programming. (8)

      (ii) Write a Qt Program that allows you to prompt the user for the name of a file or a directory Specify that the selection be limited to files that already exist or enable the user to enter a new filename. Using filters, limit the available filenames to only those that match specific criteria. (8)

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