IV B.Tech I Semester Supplementary Examinations, Feb/Mar - 2015
OPEN SOURCE SOFTWARE
(Open Elective)

Time: 3 hours   **Max. Marks: 75**
Answer any FIVE Questions
All Questions carry equal marks
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1 a) Discuss the need and advantages of open source software.   [8]

   b) Compare and contrast between LINUX kernel mode and user mode.   [7]

2 a) What is a process? Describe about managing processes in LINUX.   [8]

   b) Describe about signals in LINUX.   [7]

3 a) Explain Date and Time functions in MYSQL.   [7]

   b) Explain about the MySQL and Web.   [8]

4 a) Write a PHP script to display the current time of day at the server with in a
       webpage.   [8]
   b) Explain various program control statements in PHP with suitable examples. [7]

5 a) Explain the process of uploading files to the server in PHP.   [8]

   b)   How will you use PHP to access data from MySQL.   [7]

6   Write a PYTHON program for
         i) Create and Assign Lists   ii) Access Values in Lists
         iii) Update Lists   iv) Remove List Elements and Lists   [15]

7 a) Explain Python functions and modules with suitable examples.   [7]

   b) Explain the error and exception handling mechanisms in Python.   [8]

8 a) Explain packages in perl with suitable examples.   [8]

   b) Write about perl variables with the help of suitable examples.   [7]

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1 a) What is open source software? Briefly explain its applications.   [8]

   b) Describe in detail about the architecture of LINUX.   [7]

2 a) What is a system call? Discuss any four file related system calls.   [8]

   b) Write about personalities in LINUX.   [7]

3 a) Write in detail about record selection technology.   [7]

   b) What is metadata in MySQL? How to obtain it and use it? Explain.   [8]

4 a) Write a short note on PHP math functions.   [8]

   b) Explain different types of arrays in PHP with suitable examples.   [7]

5 a) Write about any four string related functions in Mysql.   [8]

   b) Explain the process of sending an e-mail with PHP.   [7]

6 a) Explain in detail about tuples and lists in python.   [8]

   b) Explain dictionaries with suitable examples.   [7]

7 a) Explain the creation of classes and objects in PYTHON.   [8]

   b) Explain the Errors and Exception Handling in PYTHON programming.   [7]

8   Explain the data manipulation functionalities provided by Perl.   [15]

Code No:**R41057**

R10

Set No. 3

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1 a) What is operating system? Explain the architecture of LINUX. [8]

  b) Compare and contrast between proprietary software and open source software. [7]

2 a) What is signal? Explain how does LINUX handle asynchronous signals. [8]

  b) Explain in detail about cloning in LINUX. [7]

3 a) Describe about working with Date and Time with MySQL. [7]

  b) What is metadata in MySQL? How to obtain it and use it? Explain. [8]

4 a) Write a PHP script to display the current time of day at the server with in a
    webpage. [8]
  b) Explain the following PHP regular expression functions in detail. [7]
       i) preg_match()   ii) preg_replace()   iii) preg_split()

5 a) Explain the process of uploading files to the server in PHP. [8]

  b) How will you use PHP to access data from MySQL. [7]

6 a) Write about various flow control statements in python. [8]

  b) Write a Python program to print Fibonacci series. [7]

7 a) Explain the error and exception handling mechanisms in Python. [8]

  b) Write Python code to create an account object with two functions. [7]

8 a) What is a cookie? Discuss how they are created and used in Perl CGI
    programs. [8]
  b) What are the fundamental ways in which hashes differ from arrays in Perl? [7]

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1 a) Discuss the need and advantages of open source software.   [8]

   b) Discuss the different types of file systems in Linux.   [7]

2 a) What is process? Explain Linux process scheduling in detail.   [8]

   b) Explain any four signals related system calls.   [7]

3 a) Write a MYSQL query for the following using DATE and TIME functions
           i) Display current date and time.
          ii) Display time in 10:10:10 format.
         iii) Display the name of the day of a particular date.
          iv) Display the date "One Year Ago" from today's date.   [8]
   b) How to use MySQL Left join to select data from multiple tables? Explain. [7]

4 a) Write PHP routines which validate all user credentials entered into a login
       page.   [8]
   b)   Explain various program control statements in PHP with suitable examples. [7]

5   Write a program to create the various statements for content management
       system for accessing MySQL database.   [15]

6 a) Illustrate the internal structure of a typical PYTHON module with the suitable
       example.   [8]
   b) With a neat sketch say how the dictionaries are compared in PYTHON.   [7]

7 a) Explain the creation of classes and objects in PYTHON.   [8]

   b) Explain the Errors and Exception Handling in PYTHON programming.   [7]

8 a) Explain Perl Parsing Rules.   [8]

   b)   Explain File handling in Perl.   [7]