Code No: **R41057**

R10

Set No. 1

IV B.Tech I Semester Regular/Supplementary Examinations, Nov/Dec - 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) What is Linux? Explain the significance of Linux over other open source operating systems.   [8]

   b) What is shell? Explain various types of shells in Linux operating system.   [7]

2 a) Explain the system calls related to process scheduling.   [8]

   b) Write a short note on "generating signals".   [7]

3 a) What is MySQL? Describe the basic commands to initiate a MySQL connection. [8]

   b) Briefly discuss about Generating Summary.   [7]

4 a) Explain the basic grammar and structure of a PHP script.   [8]

   b) Describe the way to embed PHP in HTML with a suitable example.   [7]

5 a) How Security and Templates can be implemented using PHP.   [7]

   b) What are the Debugging techniques should know by PHP programmer.   [8]

6 a) Explain the control loops in Python and explain with syntax.   [8]

   b) How can we pass optional or keyword parameters from one function to another in Python?   [7]

7 a) Explain how can we create modules in Python. What are the uses of modules? [8]

   b) With a neat sketch say how the dictionaries are compared in Python.   [7]

8   Explain Perl's regular expressions and string manipulation functions.   [15]

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Time: 3 hours　　　　　　　　　　　　　　　　　　　　　　**Max. Marks: 75**

Answer any FIVE Questions
All Questions carry equal marks
*****

1　a)　What is open source? Explain the significance of open source software and its applications in detail. [8]

　　b)　Write about the segmentation in Linux. [7]

2　a)　What are signals and explain various signals handling mechanism in Linux? [8]

　　b)　What is process synchronization? Explain spin locks in detail. [7]

3　a)　Brief the features of My SQL with suitable examples. [8]

　　b)　Write a short note on Record selection Technology. [7]

4　a)　Write a PHP script that accepts a temperature value in Celsius (C) through a Webform and converts it to the Fahrenheit (F) scale. The conversion formula to use is: F = (9/5) * C + 32. [8]

　　b)　Briefly write about the control statements in PHP. [7]

5　a)　What are the steps involved in creating connection with MYSQL database using PHP? [8]

　　b)　How Sending and receiving E-mails can be achieved? Explain with an example. [7]

6　a)　Explain the built-in string handling functions in Python. [8]

　　b)　Explain how to make Forms in python. [7]

7　a)　Explain the Errors and Exception Handling in PYTHON programming Environment. [8]

　　b)　What is a class? How Python can facilitate encapsulation to the programmers? Give an example [7]

8　a)　What are modules? How they are created and used in Perl? [8]

　　b)　Write short note on : "conversion between bases" [7]

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1 a) Discuss the significance of open sources with respect to today's (4)
       requirements.   [7]
   b)   Describe the general operating systems structure.   [8]

2 a) Explain the XFS File System and its properties.   [8]
   b) What is the use of cloning? Explain how to implement using LINUX.   [7]

3 a) Define Metadata and explain it with example.   [8]
   b) Write a short note on sequences in MYSQL.   [7]

4 a) Write a PHP script to display the values entered into a Web form that contains:
       ●One text input field   ●One text area   ●One hidden field
       ●One password field   ●One selection list   ●Two radio buttons
       ●Two checkboxes   [8]
   b) Write a short note on PHP variables.   [7]

5 a) Write a PHP program to built customer error handlers.   [10]
   b) How can you differentiate LDAP with MYSQL?   [5]

6 a) Write a sample program and explain the role of interpreter of Python. [8]
   b) What is Python? State some programming language features of Python.   [7]

7 a) Describe about File I/O operations in Python.   [8]
   b) Explain Python Execution Environment in detail.   [7]

8 a) Explain the PERL's While loops with suitable examples.   [6]
   b) Explain about the Data Manipulation functions in Perl.   [9]

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1 a) Write about LINUX file system and its organization.   [8]

   b) Briefly explain LINUX file system related system calls.   [7]

2 a) Describe the development with LINUX.   [8]

   b) Write a short note on "LINUX execution personalities".   [7]

3 a) Describe the number of ways of Sorting Query Results using MYSQL.   [8]

   b) Write about Date and Time functions in MYSQL.   [7]

4   Explain PHP's built-in string and numeric functions.   [15]

5 a) Describe PHP Connectivity in detail.   [8]

   b) Why LDAP is called light weight? Explain LDAP information model.   [7]

6 a) What is constructor? Explain the constructor (method) overloading concept in
       detail.   [8]
   b) Explain the following terms:
          i)   Lists
          ii) Tuples
          iii) Dictionaries   [7]

7 a) Explain about OOPs principles of Python.   [8]

   b) What is inheritance? Explain the types of inheritance with neat diagrams.   [7]

8 a) Explain the basic features of PERL.   [7]

   b) Write about PERL's here documents and arrays.   [8]

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