

B.E DEGREE EXMINATIONS: APRIL/ MAY 2012

Sixth Semester

COMPUTER SCIENCE & ENGINEERING

CSE121: Open Source Software

Time: Three Hours

Maximum Marks: 100

Answer ALL Questions:-

PART A (10 x 1 = 10 Marks)

1. Which of the following is not open source software?
a) Python b) PERL c) PHP d) XNA
2. Every command in Linux is a _____
a) Text file b) stored variable c) executable program d) None
3. When do we use a HAVING clause?
a) To limit output of a query
b) To limit output of a query using an aggregate function only
c) When GROUP by is used
d) Both b and c
4. A view is nothing but a _____ table or a stored query.
a) Dynamic b) Real c) Virtual d) Static
5. How do we start a PHP session?
a) Using session_start() b) Using session_register()
c) Using the variable \$_SESSION d) Using session_set()
6. What is Joomla in PHP?
a) Set of library enriched with functions
b) An open source CMS
c) framework for designing dynamic pages
d) framework and distribution system for reusable PHP components
7. If PYTHONPATH is set in the environment, which directory will be searched first for modules?
a) PYTHONPATH directory b) current directory
c) home directory d) installation dependent default path
8. What gets printed for the following Python code?

```
kvps={"bill", "password", "hillary"}  
print kvps['password']
```


a) bill b) password c) Hillary d) Nothing Python syntax error

9. PERL stands for

- a) Practical Extraction and Realtime language
- b) Practical Extraction and Report Language
- c) Performance Extraction and Realtime language
- d) Performance Extraction and Report Language

10. In PERL arrays are defined with the _____ symbol

- a) #
- b) %
- c) @
- d) \$

PART B (10 x 2 = 20 Marks)

11. What is a Open Source Software? How it differs from freeware?

12. What do you mean by Cloning Process in Software?

13. Write a MySQL query to delete a particular row from table. Give example

14. How do you assign password for root account in MySQL?

15. How Date and Time is handled in MySQL?

16. How error is handled in PHP?

17. Compare sequence type and mapping type in Python.

18. How can I get a dictionary to display its keys in a consistent order?

19. How to concatenate strings with PERL?

20. How to open and read data files with Perl?

PART C (5 x 14 = 70 Marks)

21. a) (i) State and explain the advantages of Open Source Software. (7)

(ii) Write about Linux modes. (7)

(OR)

b) Discuss in detail about Process Scheduling in Linux.

22. a) Explain various data types of MySQL.

(OR)

b) Describe about MYSQL string function with its syntax and example.

23. a) (i) Define operator associativity in PHP? Evaluate the following expression.

(8)

- 1. $(2+4)/2*3$
- 2. $2+4/2*3$
- 3. $(2+4)/(2*3)$
- 4. $2+4/(2*3)$

(ii) Write short notes on PHP Shorthand Assignment operator.

(6)

(OR)

b) Create a student database containing student details such as roll number, name, and marks in MySQL. Write a PHP program to manipulate student database and display average marks of each student.

24. a) (i) Illustrate the internal structure of a typical PYTHON module with the suitable example. (7)

(ii) Explain how the dictionaries are compared in PYTHON? (7)

(OR)

b) Write short notes on (i) Python Modules (7)

(ii) Python Files (7)

25. a) (i) Give some of the elements and components within PERL? Illustrate it. (8)

(ii) Summarize the execution process of PERL Script. (6)

b) (i) Specify the basic rules applied for naming the PERL variables. (6)

(ii) Brief the looping statement supported by PERL with its syntax and suitable examples. (8)
