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VIVEKANANDHA COLLEGE OF ENGINEERING FOR WOMEN
[AUTONOMOUS INSTITUTION AFFILIATED TO ANNA UNIVERSITY, CHENNAI]
Elayampalayam – 637 205, Tiruchengode, Namakkal Dt., Tamil Nadu.



Question Paper Code: 6011

B.E. / B.Tech. DEGREE SUPPLEMENTARY EXAMINATIONS – FEB. / MAR. 2020

Third Semester

Information Technology

U15IT302– OPEN SOURCE SOFTWARE

(Regulation 2015)

Time : Three Hours

Maximum : 100 Marks

Answer ALL the questions

PART – A

(10 x 2 = 20 Marks)

1. What are the four important factors that led to the development of open source software?
2. Differentiate process and program.
3. List out the different scheduling policies in Linux.
4. Recall the system call available to send a signal in Linux.
5. Classify the functions available to read a file in PHP.
6. Give the Importance of PHP Security.
7. Identify some of the rules and certain symbols used with regard to statements in Python.
8. How to Remove List Elements and Lists in python?
9. Name the built in data types present in PERL.
10. List and write various control structures available in PERL.

PART – B

(5 x 13 = 65 Marks)

11. a) Demonstrate the various applications of open source software used in real world scenarios in different areas.

(OR)

- b) What are the challenges in developing an open source software and suggest the procedure/ way to avoid them?

12. a) i. Illustrate the process management in LINUX with suitable system call. (7)
ii. Compare Kernal mode and User mode. (6)

(OR)

- b) Enlighten the basic system calls used for waiting a process to be executed. to display the compatibility information, limits, group of a process session

13. a) i. Describe about array functions with your own examples in detail.(7)
ii. Characterize operator associativity in PHP and evaluate the following expression (6)
1. $(2+4)/2*3$
 2. $2+4/2*3$
 3. $(2+4)/(2*3)$
 4. $2+4/(2*3)$

(OR)

- b) i. Mention the scalar data-types provided by PHP and its purpose. (5)
ii. Elucidate about file operation with different functions in PHP (8)

14. a) i. Write a Python program with function named maximum that accepts two integer values as arguments and returns the value that is the greater of the two. Use the function in a program that prompts the user to enter two integer values. The program should display the value that is the greater of the two (7)
- ii. Given the following variables
look = 'Look at me!' now = 'NOW'
Find the values of following expressions (6)
1. look[:4]
 2. look[-1]
 3. look*2
 4. look[:-1] + now + look[-1] now[1]
 5. now[4]
 6. look*2 + look[:-1] + now + look[-1]

(OR)

- b) Describe in details about procedure involved in python for creating function and calling functions.
15. a) i. Write a perl program for Scope of variables to identify the life time of variables. (7)
ii. Categorize the File handling Functions in PERL Script (6)
- (OR)
- b) Write a program for Text Processing using perl with the help of regular Expression.

PART – C

(1 x 15 = 15Marks)

16. a) Develop a python program for
- 1.Create and Assign Lists
 - 2.Access Values in Lists
 - 3.Update Lists
 4. Remove List Elements and Lists
- (OR)
- b) i. Write a Python program that gives simple math quizzes. The program should display two random numbers that are to be added. The program should allow the student to enter the answer. If the answer is correct, a message of congratulations should be displayed. If the answer is incorrect, a message showing the correct answer should be displayed. (7)
- ii. Explain the step by step procedure involved in PHP while using database. (accessing data from a database). (8)

