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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: 50043

B.E. / B.Tech. DEGREE END-SEMESTER EXAMINATIONS – JAN. 2025

Fourth Semester

Computer Science and Engineering

U19CS412 – OPEN SOURCE SOFTWARE

(Regulation 2019)

Time: Three Hours

Maximum: 100 Marks

Answer ALL the questions

Knowledge Levels (KL)	K1 – Remembering	K3 – Applying	K5 - Evaluating
	K2 – Understanding	K4 – Analyzing	K6 - Creating

PART – A

Q.No.	Questions	(10 x 2 = 20 Marks)		
		Marks	KL	CO
1.	List any two advantages of open sources.	2	K1	CO1
2.	What are the modes in which programs shall be executed?	2	K1	CO1
3.	Define operator associativity in PHP. Evaluate the following expression. 1) $(2+4)/2*3$ 2) $2+4/2*3$ 3) $(2+4)/(2*3)$ 4) $2+4/(2*3)$	2	K3	CO2
4.	Write the syntax of looping constructs in PHP.	2	K1	CO2
5.	In how many ways can we retrieve the data in the result set of MySQL using PHP? Justify it.	2	K2	CO3
6.	Define Cookies.	2	K1	CO3
7.	Where do we require 'chomp' and specify its role.	2	K2	CO4
8.	Write the syntax for extracting substring in perl with example.	2	K1	CO4
9.	What interface is used in PERL to connect to database?	2	K1	CO5
10.	Write the significance of GET and POST methods.	2	K1	CO5

PART – B

Q.No.	Questions	(5 x 13 = 65 Marks)		
		Marks	KL	CO
11. a) i.	Discuss the Kernel mode and user mode of operations in Linux Environment.	7	K2	CO1

- ii. Elucidate various types of FOSS Licenses. 6
- (OR)
- b) Explain the advantages of Free Software and GNU/Linux, FOSS usage and also explain what is shell and its types. 13 K2 CO1
12. a) i. Write a PHP script to display the current time of day at the server within a web page. 7 K3 CO2
- ii. Explain various program control statements in PHP with suitable examples. 6
- (OR)
- b) Explain in detail about reading data from web pages with suitable examples. 13 K2 CO2
13. a) Design a form using PHP as given below: 13 K2 CO3
- | Employee | |
|---------------------------------------|--------------------------------------|
| ID : | <input type="text"/> |
| Name : | <input type="text"/> |
| Designation: | <input type="text"/> |
| <input type="button" value="Submit"/> | <input type="button" value="Clear"/> |
- Receive the input in the form and populate in the mysql database.
- (OR)
- b) i. Write a code for File Uploading and Downloading with PHP. 7 K3 CO3
- ii. Enunciate on session handling in PHP 6 K2
14. a) i. Write the Perl program check the given number is palindrome or not. 6 K3 CO4
- ii. Elucidate on various parsing rules supported in Perl. 7 K2
- (OR)
- b) i. Enunciate on modules and packages in Perl. 6 K2 CO4
- ii. Write a program in perl to rename a file. 7 K3
15. a) Create a Employee table using Perl with the attributes Emp_id, Emp-name, Emp_salary, Emp_age, Emp_blood group, Emp_contact no and Year of joining. Design an interface in perl to receive the values and update in the database. 13 K3 CO5

(OR)

- b) Explain Perl CGI Programming and Write a perl program to read a text from the file and write the consonants in another file. 13 K2 CO5

PART – C

(1 x 15 = 15Marks)

Q.No.	Questions	Marks	KL	CO
16. a)	i. Discuss the Browser Handling Power in PHP.	6	K2	CO2
	ii. Define a function "Prime" to generate all prime numbers in the given range of values.	9	K3	CO2
	(OR)			
b)	Discuss the features of different Linux OS. Explain the Ubuntu, Cent OS and Redhat operating system with its pros and cons.	15	K2	CO1