

2023

COMPUTER SCIENCE — HONOURS — PRACTICAL

Paper : CC-8P

(Data Communication Networking and Internet Technology)

Full Marks : 30

SET - 2

Marks Distribution :

Program Implementation	:	15 (5+10) (HTML+PHP)
Output	:	05
Sessional	:	04
Viva voce	:	06

Answer *any one* question.

1. Design a web page using HTML and PHP that will take input of a number and check if it is Moran Number or not. Keep validations for null and non-numeric entry.

[A number N is a Moran number if N divided by the sum of digits gives a prime number. For e.g. : 21 is a Moran number as 21 divided by the sum of digits 3(2+1) gives 7 which is a prime number.]

[Inbuilt library functions may be used where needed.]

( 2 )

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2. Design a web page using HTML and PHP that prints the following pattern in a table for input line number N ( $\geq 4$ ). Keep validation for line number input.

For Line No. N = 5.

```

      X
    X X X
  X X X X X
X X X X X X X
X X X X X X X X X
  X           X
  X  X X X  X
  X  X X X  X
  X  X X X  X
    X X X X X X X
```

3. Suppose you have a default list of 'Student name' and 'Marks' in an associative multi-dimensional array. Now design a web page using HTML and PHP that show the list in tabular format and also print name(s) of the student(s) who score highest marks in the given list.

[Inbuilt library function may be used if needed]

4. Design a web page using HTML and PHP that inputs a sentence in a textbox and show the sentence in another textbox by changing each word reverse upper case by pressing "REVERSE" submit button.

For e.g. String : "We are learning php"

Output : "EW ERA GNINRAEL PHP"

[Inbuilt library functions may be used where needed]

( 3 )

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5. Design a web page using HTML and PHP that will create a multiplication table for mod N and show in a table format. Keep validation for input value of N. Keep validation of input N.  
e.g. multiplication table for mod 4 [set for mod 4 = {0, 1, 2, 3}]

X	0	1	2	3
0	0	0	0	0
1	0	1	2	3
2	0	2	0	2
3	0	3	2	1

6. Suppose you have a default list of “username” and “password” in an associative multi-dimensional array. Design a web page using HTML and PHP that implements “Reset login password” system using that given list. Also show the list of users and password before and after reset password.  
[Inbuilt library functions may be used]

7. Design the following static web pages required for an online bookstore web site : (i) Home Page  
(ii) Login Page (iii) Catalogue Page.

**Login Page Contains :**

**1. New Registration**

**2. Login**

- (i) Username
- (ii) Password

**Catalogue Page Contains :**

- 1. Image of Cover Page
- 2. Author Name
- 3. Publisher
- 4. Price
- 5. Add to cart button