

2024

COMPUTER SCIENCE — HONOURS — PRACTICAL

Paper : CC - 8P

(Computer Networking and Web Design Lab)

Full Marks : 30

Set - 1

Marks Distribution

Source Code : 15

Output : 05

Sessional : 06

Viva voce : 04

Answer *any one* question.

1. Design a web page using HTML and PHP that will print the following pattern for an odd numbered input. Suppose for input = 5, below output should come

```
1
3 4
6 7 8
10 11 12
14 15 16 17 18
```

Inbuilt functions may be used.

2. Write a program in PHP that will accept an array of integers as input and output a new array after performing following operations :

- (a) If input number is even then find and put ( $3^{\text{number}}$  index)
- (b) If input number is odd but not prime then put the number index
- (c) If input number is prime then copy the number i.e. no change

For example: array (11, 4, 5, 7, 15)

Output array (11, 3, 5, 7, 4)

3. Design a web page using HTML and PHP to generate Fibonacci series upto 'N' terms where N is a user input. Perform necessary validations.
  
  4. Design a web page using HTML and PHP for Net Salary calculation of employees. The information to be provided by the user is BASIC, % of DA, Medical allowance, Tax amount to be deducted monthly. Medical allowance is 1000 rupees for all. HRA for any employee is 30% of BASIC and maximum admissible HRA for any employee is 15000 rupees.
  
  5. Design a web page using HTML and PHP that input a string and a substring from user. The size of string must be at least 15 and the size of the substring must be at most 5. The program will output a binary array that shows if the substring is present at that index of the input string. For example  
Input string : 'If you don't get pass marks in the paper, then you will have to repeat the year'.  
Input substring : 'you'  
Output array (0, 1, 0, 0, 0, 0, 0, 0, 0, 0, 0, 1, 0, 0, 0, 0, 0, 0)  
Input substring : 'the'  
Output array (0, 0, 0, 0, 0, 0, 0, 1, 0, 0, 0, 0, 0, 0, 0, 0, 1, 0)
  
  6. Design a web page using HTML and PHP that shows details of places to visit near Kolkata. Give suitable images and details for at least 5 places.
  
  7. Design a Login web page using HTML and PHP. Suppose the Admin maintains 3 set of login credentials. Redirect the user to the Home page if he inputs correct login details else give him a message which says 'Wrong User name or password' and allow him to input again.
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COMPUTER SCIENCE — HONOURS — PRACTICAL

Paper : CC - 8P

(Computer Networking and Web Design Lab)

Full Marks : 30

Set - 2

Marks Distribution

Source Code : 15

Output : 05

Sessional : 04

Viva voce : 06

Answer *any one* question.

1. Design a web page using HTML and PHP that will print the following pattern for an even numbered input. Suppose for input = 6, below output should come

```
A B C D E F
A B C D E
A B C D
A B C
A B
A
```

Inbuilt functions may be used.

2. Create a login form with fields as user name and password. When user enters "Admin", "aDMIn" as user name and password then it should redirect the page to Welcome.html page. Decorate the Welcome page with suitable background image and message. Else redirect to SorryPage.html if wrong user name and password is entered.

3. Suppose you have a default list of 'Student name' and 'Marks' of CC8 paper in an associative array. Now design a web page using HTML and PHP that will show the list of students in tabular format. Full marks is 100 in CC8 paper and marks above 40 are considered Pass, else Fail. Also display the name of the topper(s).
  
  4. Design a web page using HTML and PHP that inputs a sentence from user, process it by reversing each word and appending its length after the reverse operation and display the resultant string. For example :  
Input = "Computer Networking is paper CC8"  
Output = "retupmoC8 gnikrowteN10 si2 repap5 8CC3"
  
  5. Design a web page using HTML and PHP that display result for a CBCS paper when a student or user gives a valid University Roll number. Valid University Roll number must start with "CU-2024-" and its length should be 13. Any CBCS paper is of 100 marks and is distributed as Internal part(10), Attendance part(10), Practical part (30) and Theory part (50). Passing marks is 40% individually for Theory and Practical part. Keep proper validations. Display the total marks if a student has pass marks in both Theory and Practical part, else show part wise result.
  
  6. Display the result of sorting at least 10 strings in desending order without using any built in function. Also display the size of the maximum and minimum length strings.
  
  7. Design a website for a Tourism site. It must have a Home page that leads to other pages i.e. upcoming Trip, Tour packages, Gallery and Blog. Keep their contact information at the bottom of Home page. Use suitable image for the website.
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**2024**

**COMPUTER SCIENCE — HONOURS — PRACTICAL**

**Paper : CC - 8P**

**(Computer Networking and Web Design Lab)**

**Full Marks : 30**

**Set - 3**

**Marks Distribution**

**Source Code : 15**

**Output : 05**

**Sessional : 06**

**Viva voce : 04**

Answer *any one* question.

1. Design a web page for a particular state. There must be a Home page that leads to other pages. The home page should contain a general introduction of the state. There should be links to the below pages.

- Home
- State profile
- Tourism
- Services
- News and Media

Create all these pages with appropriate details/text/images/etc.

2. Design a web page using HTML and PHP that will input 'name', 'marks' and 'department' list of 5 students using textbox and dropdown box and perform the following operations :

Print each student's record as "<name> belongs to <department> department" by pressing "PRINT ALL" submit button.

3. Design a web page using HTML and PHP that shows the simple calculator program with all operation buttons like addition, subtraction, multiplication division and power.
  
4. Create a web page using HTML and PHP for the following :
  - (a) Design a form to accept the details of 5 different items such as Item Code, Item Name, units sold and Rate.
  - (b) Display the bill in tabular format. Use only 4 textboxes.
  
5. Create a HTML webpage to accept username, password and contact number of the user. Write a PHP script to validate the following using regular expression as follows :
  - (a) Username : min 5 characters (alphanumeric), max 20 characters (alphanumeric)
  - (b) Password : min 5 characters (alphanumeric), must have min one capital letter and one special character.
  - (c) Contact numer : 10-digit contact number.
  
6. Write a PHP script to create and display any associative array having college names and their universities as their key-value pairs. Add a minimum 5 key-value pairs in the array.

7. Design a web page using HTML and PHP that creates marksheet of a student. The input fields are

- (a) Name
- (b) Roll no.
- (c) Registration no.
- (d) Internal marks (out of 20)
- (e) Marks in Theory (out of 50)
- (f) Marks in practical (out of 30)

of three papers (say CC8, CC9, CC10), calculate Total marks obtained (out of 100), Grade of each paper and over all Grade. Grade will be calculated by the rule given below :

The marksheet will show all marks details along with roll no., registration number, name, grade, total in each paper, overall total and Grade. Also print "semester not cleared" if any of the grades is 'F' as Remarks.

| Percentage of Marks      | Grades |
|--------------------------|--------|
| $\geq 90\%$ to 100%      | A++    |
| $\geq 80\%$ but $< 90\%$ | A+     |
| $\geq 70\%$ but $< 80\%$ | A      |
| $\geq 60\%$ but $< 70\%$ | B+     |
| $\geq 50\%$ but $< 60\%$ | B      |
| $\geq 40\%$ but $< 50\%$ | C+     |
| $\geq 30\%$ but $< 40\%$ | C      |
| $< 30\%$                 | F      |
| Absent                   | Ab     |