

3330

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(iv) Delete a record from the table Library
where Book_Id = 1234.

(v) Close the connection of the database.

Use the following information :

Host Name: localhost, *Database Name:* College,
Username: Usr_script, *Password:* pwd21.

Table: Library

Book_id	Book_title	Author	Publication	ISBN
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[This question paper contains 12 printed pages.]

Your Roll No.....

Sr. No. of Question Paper : 3330

I

Unique Paper Code : 2344000006

Name of the Paper : Advanced Web Programming

Name of the Course : **Generic Elective (5b) –
Computer Science**

Semester : V – Year III

Duration : 3 Hours

Maximum Marks : 90

Instructions for Candidates

1. Write your Roll No. on the top immediately on receipt of this question paper.
2. **Section A** is compulsory.
3. Attempt any 4 questions from **Section B**.
4. Parts of a question must be answered together.

(1500)

P.T.O.

SECTION A

(Compulsory)

1. (a) Give the different types of comments in PHP with their syntax. (3)
- (b) What is the difference between == and === in PHP? Explain with example. (3)
- (c) What is a *foreach* loop in PHP, and how is it used? (3)
- (d) What is JSON? Which function is used to convert JSON object into associative array? Give example. (3)
- (e) Explain the difference between static and dynamic webpage. Where does PHP fall in this context? (3)
- (f) Give the output of the following code. (3)

- (ii) To return the name of the server host.
 - (iii) To return the request method used to access the page.
 - (iv) To return the path of the current script.
 - (v) To print the value of global variable "num".
-
7. (a) Write a PHP script that creates a new database College (if it doesn't already exist) and then creates a user's table Library within it. The users table should contain columns for Book_id, Book_title, Author, Publication and ISBN. (5)
 - (b) Write a PHP script to :- (10)
 - (i) Insert a new record into a Library table using MySQL.
 - (ii) Update author name to "Rajeev" where Book_Id = 2345.
 - (iii) Display Book Id, Book title, Author, Publication and ISBN of all books.

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(iv) To convert string str1 to uppercase and lowercase.

(v) To find the position of first occurrence of character "1" in string str1.

(vi) To find the position of last occurrence of the character "s" in string str1.

(vii) To reverse the string str1.

(viii) To find the length of string str1.

6. (a) Write a PHP script that connects to a MySQL database and checks for any connection errors. If the connection fails, the script should output the error message (5)

(b) What is form validation, and why is it important? Explain the difference between client-side and server-side validation, and why both are necessary in web applications. (5)

(c) Write a PHP statement (5)

(i) To return the filename of the currently executing script.

```
<?php
```

```
for ($num = 10; $num <= 100; $num+=10)
```

```
{
```

```
switch($num) {
```

```
case 10: echo ("number is equals to 10");
```

```
break;
```

```
case 20: echo ("number is equal to 20");
```

```
break;
```

```
case 30: echo ("number is equal to 30);
```

```
break;
```

```
case 40: echo ("number is equal to 40");
```

```
break;
```

```
case 50: echo ("number is equal to 50");
```

```
break;
```

```
default: echo ("number is not equal to 10, 20, 30, 40 or 50");
```

```
}
```

```
}
```

```
?>
```

(g) What is the difference between `isset()` and `empty()` when handling form data? Explain with example.

(3)

(h) How does PHP handle type casting? Give example.

(3)

(i) What will be the output of the following PHP code?

(3+3)

(i) `<?php`

```
$str = "Hello World!";
```

```
$arr = array("a" => 1, "b" => 2, "c" => 3);
```

```
echo strlen ($str);
```

```
echo $arr["b"];
```

```
echo implode($arr);
```

```
?>
```

(b) Give the difference between GET and POST methods. Which method is best suited for web development? Name any two superglobal variable used to retrieve the data from the form? (5)

5. (a) Write a PHP script that checks whether a given string start with "Hello" and end with "bye" and display a message "The string starts with Hello and ends with bye". Otherwise, display a message "The string does not start with Hello and end with bye". (5)

(b) Given the string `$str1 = "I love chocolates"` Write PHP statements for the following operations : (10)

(i) To replace "love" with substring "hate" in string `str 1`.

(ii) To counts the number of times substring "I" occurs in a string `str1`.

(iii) To removes the whitespace from the left and right side of a string `str1`.

- (c) Write a PHP script to declare a 2D array of 4 rows and 5 columns and perform the following operations : (5)

(i) To print the sum of values of both the diagonal elements

(ii) To print the sum of first and last row elements

4. (a) Design an HTML form with the fields for entering (10)

- Name
- Email
- Years of Experience
- Gender
- Hobbies
- Submit button

Write a PHP script to check if any field is empty. Display an error message for each missing field. On form submission, display the information entered by the user in the form on the next page.

- (ii) <?php

\$a= 45;

\$b= --\$a;

\$c= \$a++;

echo \$b;

echo \$c;

echo (\$b==\$c? 'TrueFalse');

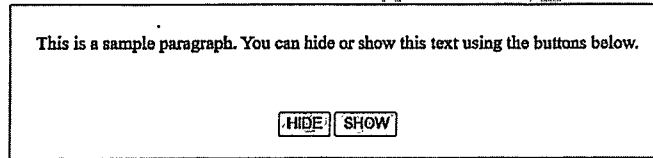
?>

SECTION B

(Attempt any 4 questions)

(Parts of a question must be answered together)

2. (a) Design an HTML form as shown in the diagram below. Use jQuery to hide the contents of the paragraph if "HIDE" button is clicked and show the contents of the paragraph if "SHOW" button is double clicked. (5)



(b) Write a jQuery statement for the following operations : (5)

(i) changes the text color of all paragraphs to "red".

(ii) Fade in an element with id "myPara"

(iii) Fade out an element with class "myClass"

(iv) Italicize the text of all paragraphs, <h1>, having ID as "id1" and class named "myclass".

(c) Differentiate between .html() and .text() methods in jQuery. When would you use one over the other? Provide examples to illustrate the differences. (5)

3. (a) Identify and correct the errors in the following code : (5)

```
<?php
```

```
$num = "ten" + 5;
```

```
$num-1 = 3;
```

```
$num2 = "3";
```

```
$fruits = ["apple", "orange"];
```

```
echo $fruits[3];
```

```
if($num1 == num2) {
```

```
    echo "hello";
```

```
}
```

```
?>
```

(b) What is an associative array? Write a PHP script to create an associative array with the following data "name": "Ravi Kumar", "age": 30, "email": "Ravi@du.ac.in", "city": "New Delhi". Print the values of the array using Foreach loop. (5)