Unique Paper Code : **62343319**

Course Name   : **B.A.(Programme)**

Name of Paper   : **PHP Programming (SEC)**

Semester   : **III**

Date of Admission: : **2019 onwards**

Duration: **3 Hours**   Maximum Marks: **75**

Attempt any **four** questions.
All Questions carry equal marks

Q1.   What are the characteristics of PHP variables?

Identify and justify the valid PHP variable names:
$GasPrice, $9xyz, $_myname, $Total-Marks, number, $echo

What will be the output of the code below? Justify your answer.

```
$x = 5;
echo $x;
echo "<br />";
echo $x++ + $x++;
echo "<br />";
echo $x;
echo "<br />";
echo $x-- - $x--;
echo "<br />";
echo $x;
```

Construct logical expressions in PHP for representing the following conditions:
- o   Salary is greater than 40,000 and less than 55,000.
- o   Gender is male and Age is greater than 65.
- o   Length of string variable $text1 is greater than 10.

Q2.   Write a PHP program to calculate the total electricity bill depending on the units consumed, based on the following assumptions:

```
• For first 50 units – Rs. 3.50/unit
• For next 100 units – Rs. 4.00/unit
• For next 100 units – Rs. 5.20/unit
• For units above 250 – Rs. 6.50/unit
```

What will be the output of the following PHP script? Write step-by-step execution:

```php
<?php
    $x = 10;
    $x /= 5;
    echo $x;
    $a = 15;
    $a %= 4;
    echo $a;
 ?>
```

What will be the output of the following PHP script? Justify your answer.

```php
<?php
function  display($a=5, $b=7){
echo $a, $b;
}
display(15,16);
display(); //passing no value
display(34);
?>
```

Q3.   List the advantages of using functions?

Explain how inbuilt functions are different from user defined functions.

Write a PHP function minimum($num1, $num2) to calculate smallest of the two numbers. Use this function to find smallest of three numbers in PHP program.

Given the following recursive function:

```php
function factorial($n)
    {
     if ($n < 0)
     return -1;
     if ($n == 0)
     return 1;
     return ($n * factorial ($n -1));
    }
```

Explain step by step execution of the function call factorial(6). What will be the output of factorial(6)?

Q4. Write a PHP program to calculate the sum of square of *n* terms of the following series, where *n* can be any value assumed by the user.

$$1+2^2 + 3^2 + 4^2 + 5^2 + \ldots\ldots\ldots\ldots\ldots.+ n^2$$

Evaluate and justify the output of the following expressions
- X= 6/2*4+32/8+5
- Y=3*4/2+2/2+6-4+4/2
- Z=7**2/9%3

What will be the output of $x after the execution of the statement? Justify your answer.

```
$x = 3 + "15%" + "$25"
```

Q5. What do you understand by string data type in PHP?

Given the following string variable:
```
$str = "skilling is possible from learning"
```
Write PHP statement(s) to perform the following operations:
- Remove "skilling" from the string $str.
- Search the position of the word "possible" in the string $str.
- Count the number of words in the string $str.
- Replace the word "skilling" witin the string $str with "earning".
- Find the length of the string $str.

Write a PHP function having an argument as string that returns TURE if the given string is palindrome otherwise return FALSE.

Q6. What do you understand by an array in PHP? List and explain the different types of arrays in PHP?

Write a program that return the length (the number of elements) of an array and also print the array elements.

Which PHP array method will be used to sort the $shapes array alphabetically.

```
$ shapes =array("line", "cube", "cuboid", "Triangle", "square")
```

What will be the output of the following code? Show the output of the code at each iteration after execution.

```php
<?php
for ($x = 0; $x < 10; $x++)
    { if ($x == 5)
        {break; }
      echo "The number is: $x <br>";
    }
?>
```

Write the output for the following   PHP script and justify your answer:

```php
<?php
$age = array("Meera"=>"35", "Seeta"=>"37", "Rani"=>"43");

 foreach($age as $x => $x_value)
  {
  echo "Key=" . $x . ", Value=" . $x_value;
  echo "<br>";
 }
?>
```