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School of Computer Science
Department of Cybernetics

Assignment No. 1

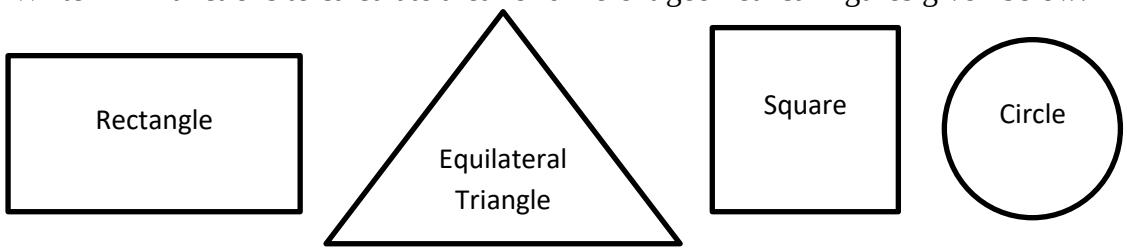
Given Date: 20th February, 2019
Subject: Web Technologies through PHP **Code:** CSEG2011
Program/Branch: B.Tech/CSE-OSOS **Term/Sec:** IV/OSOS
Faculty: Pushpendra K Rajput **Session:** 2018-2019

Last Date of Submission: 8th March, 2019

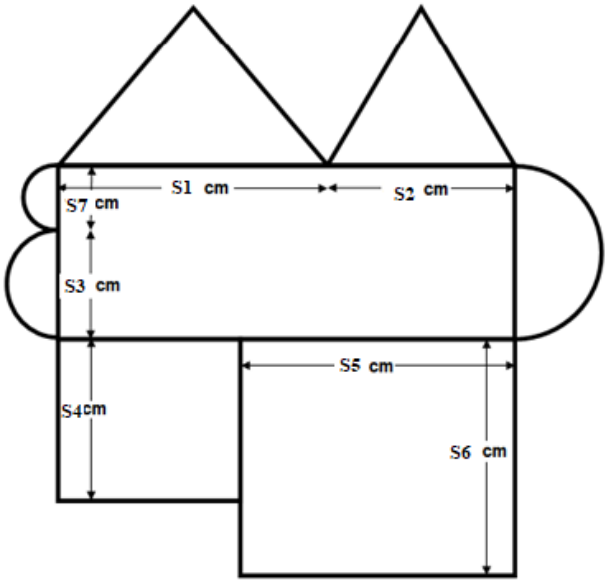
Note:-

- **Assignment will not be considered after the submission date.**
- **No copied materials will be accepted.**
- **Students are advised to submit the Assignment in online mode only.**
- **Attach a screenshot of one sample output in Q.1 and Q.5.**

Q.1 Write PHP functions to calculate area for different geometrical figures given below:



Write all these functions in your program and make appropriate function calls to compute the area of the figure displayed below:



Where,
S1: Last digit of your roll no.
S2: Second last digit of roll no.
S3: 2. 5
S4: S5 % 5
S5: Last two digits of roll no.
S6: S5
S7 : 1.5

If any value is 0 make it 9.

Expected Output: **Area of displayed Figure is: _____. (in the form of a web Page)**

Q.2 Differentiate between Formal Parameters and Actual Parameters with suitable examples.

Q.3 **Write the first line of the function definition, including the formal argument declarations, for each of the situations described below.**

(a) A function called sample generates and returns an integer quantity.

(b) A function called root accepts two integer arguments and returns a floating-point result.

(c) A function called convert accepts a character and returns another character.

(d) A function called transfer accepts a long integer and returns a character.

(e) A function called inverse accepts a character and returns a long integer.

(f) A function called process accepts an integer and two floating-point quantities (in that order), and returns a double-precision quantity.

(g) A function called *value* accepts two double-precision quantities and a short-integer quantity (in that order). The input quantities are processed to yield a double-precision value which is displayed as a final resu1t.

Q.4 Write and test the following `power()` function in recursive manner that return x^n (`x` raised to the power `n)`, where `n` can be any integer:

```
function power($x,$n);
```

Q.5 A number can be represented in different number systems, defined with its radix or base. Examples are binary, octal, decimal, hexadecimal, etc. Design a web page "Number system Conversion", that provides conversion of a number from one number system to another number system based on user's choice.

Evaluation criteria:

1. User Interface
2. Functionality Included
3. Modular Design
4. Code writing styles (use of comment and structure of the code)