Reg. No. :

Question Paper Code : 91208

B.E./B.Tech. DEGREE EXAMINATION, DEC 2020

First Semester

Civil Engineering

19UCS108- PROBLEM SOLVING AND PYTHON PROGRAMMING

(Common to ALL branches)

(Regulation 2019)

Duration: 1.15 hrs   Maximum: 30 Marks

PART A - (6 x 1 = 6 Marks)

(Answer any six of the following questions)

1. Which of the following is used to translate a program written in a high-level   CO1- R
   language into its equivalent machine code line by line?

   (a) Loader   (b) Compiler   (c) Linker   (d) Interpreter

2. Saving data and instructions to make them readily available is the job   CO1- R
   of _____

   (a) Storage Unit   (b) Cache Unit   (c) Input Unit   (d) Output Unit

3. What is the output of the following statement?   CO2- App

   round(1.5) – round (-1.5)

   (a) 4   (b)3   (c)2   (d)1

4. Which of these in not a core data type?

   (a) Lists   (b) Dictionary   (c) Tuples   (d) Class

5. Which of the following is equivalent to s[:-1]   CO3-U

   (a) s[:len(s)]   (b) s[len(s):]   (c) s[::]   (d) S[:-1]

6. What will be the output of the following Python code?   ]   CO3-App

```
i = 0
while
i<3:
  print(i)
  i+=1
else:
```

(a) 0 1 2 3 0   (b) 0 1 2 0   (c) 0 1 2   (d) error

7. A variable defined outside a function is referred to as   CO4- R

(a) Local variable   (b) Only Variable   (c) Global Variable   (d) Private Variabe

8. Which keyword is used for function?

(a) Fun   (b) Define   (c) Def   (d) Function

9. What will be the output of the following code?   CO5- App

a=((1,2),)*7

Print(len(a[3:6]))

(a) 2   (b) 4   (c) 3   (d) Error

10 What is the output when we execute list("hello")?   CO5- App

(a) ['h', 'e', 'l', 'l', 'o']   (b) ['hello']   (c) ['llo']   (d) ['olleh']

PART – B (3 x 8= 24 Marks)

(Answer any three of the following questions)

11. Draw a flow chart to print the first 'n' prime numbers.   CO1- U   (8)

12. Outline the various Operators and Expressions in Python with CO2- U   (8)
examples.

13. Develop a Python program to calculate the sum of numbers from 1 to   CO3- App   (8)
20 which are not divisible by 2, 3 or 5.

14. Outline parameters and arguments in functions with examples.   CO4- App   (8)

15. Demonstrate with code the various operations that can be performed CO5- U   (8)
on lists.

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