

BHARTIYA SKILL DEVELOPMENT UNIVERSITY**Question Paper****School of Machine Learning & Artificial Intelligence****First Semester, 1st In-Sem. Examination****B. Voc. Program, Summer Semester (2018-19)****MAI1103 Python****Time: 1.5 Hour****Max. Marks: 20****Instruction: Attempt All Questions.****Section – A**

20 x 0.5 = 10 Marks

1. Which of the following are valid variable names?
A) ms.NET B) WoW C) green-day D) 500_days_of_summer
2. Suppose the variable x has the value 5 and y has the value 10. After executing these statements:

```
>>>x=5
```

```
>>>y=10
```

```
>>>x = y
```

```
>>>y = x
```

what will the values of x and y be, respectively?

- A) 5 and 10 B) 10 and 5 C) 10 and 10 D) 5 and 5
3. What output is produced when the following code is executed?

```
>>>hello = "yo"
```

```
>>>world = "dude"
```

```
>>>print hello, world
```

- A) hello, world B) yo dude C) "yo" "dude" D) yodude E) This produces an error.
4. What is the output from the print() statement?
- ```
>>>result = "10" / 2
```
- ```
>>>print(result)
```

- A) 5 B) 5.0 C) '10' / 2 D) This produces an error.
5. To what value is the variable z set by the following code?

```
>>>z = 13 + 13 // 10
```

- A) 14.3 B) 14.0 C) 2 D) 14

6. What is the output of the following?

```
>>> print("Hello {name1} and {name2}").format(name1='foo', name2='bin')
```

- A) Hello foo and bin B) Hello {name1} and {name2} C) Error D) Hello and

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7. What is the output of the following code ?

```
>>>example = "snow world"  
>>>example[3] = 's'  
>>>print example
```

A) now B) snow world C) Error D) snos world

8. What is the output of “hello”+1+2+3 ?

A) hello123 B) hello C) Error D) hello6

9. What is the output when following code is executed ?

```
>>>str1 = 'hello'  
>>> str1[-1:]
```

A) olleh B) hello C) h D) O

10. What is the output of the following code ?

```
>>>example = "helle"  
>>>example.find("e")
```

A) Error B) -1 C) 1 D) 0

11. What is the output of the code shown below?

```
if (9 < 0) and (0 < -9):  
    print("hello")  
elif (9 > 0) or False:  
    print("good")  
else:  
    print("bad")
```

A) error B) hello C) good D) bad

12. Which of the following is an invalid variable?

A) my_string_1 B) 1st_string C) foo D) _

13. What is the average value of the code that is executed below ?

```
>>>grade1 = 80  
>>>grade2 = 90  
>>>grade3 = 100  
>>>average = (grade1 + grade2+grade3) / 3
```

A) 85 B) 85.1 C) 90 D) 95.1

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14. What is the output of the following?

```
i = 1
while True:
    if i%3 == 0:
        break
    print i

    i += 1
```

A) 1 2 B) 1 2 3 C) error D) none of the mentioned

15. Which one of these is floor division?

A) / B) // C) % D) None of the mentioned

16. Which of the following symbols are used for comments in Python?

A) // B) " C) /**/ D) #

17. Which of the following is correct way to declare string variable in Python?

A) fruit = 'banana' B) fruit = "banana" C) fruit = banana D) fruit = (banana)

18. Which predefined Python function is used to find length of string?

A) length() B) len() C) strlen() D) stringlength()

19. If a='BS', b='DU' then which of the following operation would show 'BSDU' as output?

A) a+b B) a"+"+b C) a+""+b D) All of the above

20. Who is the Creator of Python?

A) Monty Python B) Guido van Rossum C) Charles Babbage D) Bill Gates

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Section – B

5 x 2 = 10 Marks

1. Write a program to calculate the circumference of a circle. Program should take radius from

User and should print circumference of the circle in formatted way.

(circumference = $2 \times \pi \times \text{radius}$) and ($\pi = 3.14$)

Note : Save program file as yourFirstName_Circle.py

2. Write a program that calculates the average score on an exam. Assume we have a small class of only three students. Assign each student's score to variables called student1, student2, and student3 and then use these variables to find the average score. Assign the average to a variable called average. Print the student scores and the average score.

The following demonstrates the program output when the students have been assigned Scores of 80.0, 90.0, and 100.0 .

Note : Save program file as yourFirstName_average.py

3. Write a python code to check if it is palindrome or not. A string is said to be palindrome if reverse of the string is same as string. For example, “radar” is palindrome, but “radix” is not palindrome. (Take string from user)

(Hint : Use Slicing Concept to Compare the string)

Note : Save program file as yourFirstName_palindrome.py

4. Write a Python program to find the length of following string –
“Forsk Technologies”

5. Write a Python program that accepts a word from the user and reverse it.