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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. What is the output of the following code ?

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

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

2. Which of the following is an invalid variable?

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

3. 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

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

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

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

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

6. Who is the Creator of Python?

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

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

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

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

8. What is the output of "hello"+1+2+3 ?
A) hello123   B) hello   C) Error   D) hello6

9. 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

10. Which of the following are valid variable names?
A) ms.NET   B) WoW   C) green-day   D) 500_days_of_summer

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. 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

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

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

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

14. 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.

15. Which one of these is floor division?
A) /   B) //   C) %   D) None of the mentioned

16. 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.

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. . 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

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. 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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Section – B

5 x 2 = 10 Marks

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

2. Write a Python program to find the length of following string –
 "Forsk Technologies"

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 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

5. Write a program to calculates the circumference of a circle. Program should take radius from
User and should print circumference of the circle in formatted way.
(circumference = 2*pi*radius) and (pi=3.14)
Note : Save program file as yourFirstName_Circle.py