S.S.R. DEGREE COLLEGE, (AUTONOMOUS)
NIZAMABAD (C.C:5029)
I SEMESTER INTERNAL ASSESSMENT I EXAMINATIONS
SUB: DATA SCIENCE
QUESTION BANK

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I. MULTIPLE CHOICE QUESTIONS

1. What is the correct file extension for Python files?   (B   )
    A) pt   B) py   C)pyt   D)python

2. How do you output "Hello, World" in Python?   (B   )
    A) echo("Hello, World")   B) print("Hello, World")
    C) printf("Hello, World")   D)cout << "Hello, World"

3. What data type is the result of: 3 + 2.5?   (C   )
    A)Integer   B) String   C) Float   D)Complex

4. What is the correct way to create a variable in Python?   (C   )
    A) x := 10   B) let x = 10   C) x = 10   D) int x = 10

5. Which of the following is a Python keyword?   (C   )
    A) val   B) define   C) if   D) func

6. What does len("Python") return?   (B   )
    A) 5   B) 6   C) 7   D) Error

7. What symbol is used for comments in Python?   (C   )
    A) //   B) <!-- -->   C) #   D) /* */

8. How do you start a function in Python?   (C   )
    A) function myFunc():   B) func myFunc():
    C) def myFunc():   D) define myFunc():

9. What is the output of: print(type("Hello"))?   (A   )
    A) <class 'str'>   B) <class 'text'>
    C) <str>   D) string

10. Which of these is a list in Python?   (B   )
    A) {1, 2, 3}   B) [1, 2, 3]
    C) (1, 2, 3)   D) None of the above

11. How do you create a loop that runs 5 times?   (B   )
    A) for i in range(1,5):   B) for i in range(5):
    C) loop 5 times: D) repeat 5:

12. Which operator is used for exponentiation in Python?   (B   )
    A) ^   B) **   C) %   D) //

13. What is the result of 10 // 3?   (B   )
    A) 3.33   B) 3   C) 4   D) 3.0

14. Which function converts a string to an integer?   (A   )
    A) int()   B) str()   C) float()   D) bool()

15. What does input() do in Python?   (C   )
    A) Outputs text   B) Pauses the program
    C) Takes user input   D) Ends the program

16. Which one is a Boolean value in Python?   (C   )
    A) "True"   B) 1   C) True   D) "False"
17. What is the result of: "a" + "b"?   (A   )
    A) ab   B) a b   C) a+b   D) Error
18. What is used to define a block of code in Python?   (C   )
    A) Braces {}   B) Parentheses ()
    C) Indentation   D) Semicolon
19. What is the output of bool(0)?   (B   )
    A) True   B) False   C) 0   D) None
20. Which statement will check if x is equal to 5?   (B   )
    A) x = 5   B) x == 5   C) x === 5   D x != 5

II.   Fill in the blanks

1. Python is a __high_____ level, interpreted programming language.

2. The extension of a Python file is **py.**

3. The function used to display output in Python is **print()**

4. To take input from the user, we use the **input()** function.

5. In Python, indentation is used to define a block of **code** .

6. The **for** statement is used to repeat a block of code a specific number of times.

7. The while loop continues to execute as long as the condition is **True.**

8. The **break** statement is used to exit a loop prematurely.

9. The **continue** statement skips the current iteration and moves to the next one.

10. The else block after a loop executes only if the loop completes **normally (or** without break**)**

11. In a for loop, for i in range(5): will iterate **5** times.

12. The range() function returns a sequence of **numbers**

13. A nested loop means a loop **inside** another loop.

14. The keyword used to define a function in Python is **def.**

15. A function returns a value using the **return** statement.

16. A function that does not return anything implicitly returns **None.**

17. The values passed to a function during the call are known as **arguments.**

18. A function can be called multiple times using its **name**

19. Strings in Python are enclosed in either **single** or **double** quotes.

20. The function used to find the length of a string is **len().**

21. Strings in Python are **immutable**, meaning they cannot be changed.

22. The method used to convert all characters in a string to uppercase is **upper()**

23. To combine two strings, we use the __+__ operator.

III. Descriptive Questions

1. What is algorithm. Give example
2. Explain about type conversion
3. Explain about nested if
4. Write about few built in functions in python
5. Explain about local and global variable.