Dr. B. C. Roy College of Pharmacy & AHS, Durgapur Course Name: Basic Programming with Python and its application in database management, artificial intelligence and machine learning(AI/ML). Exam Date : 29/01/2024

General Instructions : Question paper contains three groups A. B and C. Group A contains MCQ typ questions with 1 marks each. Group B contains short answer type questions with 3 marks each and in Group C, you have to write Python program, carries 5 marks each.	
A. choo	se the most appropriate answer from the options given below
.1	object oriented programming by structured programming b) structured programming d) all of the mentioned
` ls	Python case sensitive when dealing with identifiers? () no = b) yes = c) machine dependent = d) none of the mentioned
1	Python code compiled or interpreted? Python code is both compiled and interpreted Python code is neither compiled nor interpreted Python code is only compiled Python code is only interpreted
4	at will be the value of the following Python expression? - 3 % 5
	(a) (b) 2 (c) 4 (d) 1
1 // = L	ich of the following is used to define a block of code in Python language? Indentation (b) Key (c) Brackets (d) All of the mentioned
1 F 3	ch of the following character is used to give single-line comments in Python?
2* (2 2*	at are the values of the following Python expressions? *(3**2) **3)**2 *3**2 512. 64. 512
a b pr	at will be the output of the following code snippet? Int(a, b) b b, a Int(a, b) 3 1 1 3 b) 1 3 3 1 c) 1 1 3 3 d) none of these
a	calculate the following declarations is incorrect in python language? (a) $xyzp = 5000000$ (b) $xyzp = 5000 6000 7000 8000$ (b) $xyzp = 5000 6000 7000 8000$ (c) $x_yz_p = 5000,000$
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1

Time: 1.30 Hrs

10. print("javatpoint"[5:]) What will be the output of this code? d) None of these c) point a) Javatpoint b) java

11. a = True b = Falsec = False if a or b and c print ("ABC") else print ("abc") e) ABC abc d) abc ABC b) ABC a) abc

12. Which of the following is the truncation division operator in Python? d) %

c) / b) // a) |

13. What will be the output:

a="10" b="20" c=a+bprint(c) d) none of these a) 30 b) 1020 c) 2010

14. How many times will Python execute the code inside the following while loop?

while i < 0 and $i \ge 2$: print ("Hello ...") i = i + 1

a) 0 times b) 1 times c) 2 times d) infinite times

15. Extension of python file is:

a) .python b) .py c) .prog d) None of these

B. Answer the following questions:

1. Write the difference between:

(c) / and // (d) * and ** (a) = and == (b) "and" and "or"

Rewrite the following for loop into while loop:

for a in range(25.500.25): print(a)

- 3. What is the significance of "else" in loop explain with example.
- 4. How many return statement can be used in a function? Explain with example.
- 5. Explain actual and formal arguments with example.
- 6. Write Python code to create a Dictionary and display the length of the dictionary.

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2

7. What is the output of the following?

i = 1

while True:

if i%7 == 0:

break

print(i)

i += 1

a) 1 2 3 4 5 6 b) 1 2 3 4 5 6 7 c) error d) none of the mentioned

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8. what will be the output if value of a is 5 def sum(a):

a=a+10
print(a)

a=int(input("enter a number"))
sum(a)
print(a)
```

- 9. Write python code to input a string and print the first and last character of it.
- 10. What will be the output?
 for x in range(6):
 print(x)
 else:
 print("Finally finished!")

C. Write python program for the following:

- 1. Cost of an apple is Rs. 10 and Mango is Rs. 8. You have purchased m and n number of Apples and Mangoes. You will get a discount of 2% if your purchase amount is more than Rs. 5000. Write a program to input the value of m and n and display the purchase amount, discount and net payable amount.
- 2. Input any 10 numbers in a list and display the maximum element.
- 3. Display the sum of all the numbers between 1 to 100 which are divisible by both 3 and 7.