Name of the Course GE-1 Semester Name of the Paper Programming With Python Faculty Name : Abha Vasal Maximum Marks: 20 Duration 1 Hour Date of Test 25.10.2023 SET A **1** Write a for loop corresponding to the while loop given (2) Sum = 0I = 1while I < 40: Sum = Sum + II = I + 4print(Sum) 2. What is the output of following **i.** 25 + 6 // 3 ** 3 != 9 // 3 -3and 29 >= 27 / 9(6)**ii.** 17//3*5**2 + 3*7 iii N=3 Sum=0 for i in range(1,N): for j in range(i, N): Sum= Sum + i+jprint(Sum) **iv** b = 10a *= b + 5 What will be the final value of variable a if initial value is 2 v math.ceil(16.33) 3. Write an assignment statement using single conditional expression (2) if cuet marks >=600: Remarks='good' else: Remarks='average' 4. Write a program to print the pattern **(4)** 1 12 123 12345 (ask user to input number of lines and print pattern accordingly) 5. Which of the following are valid identifiers? If they are invalid, then mention the cause of violation. #ofElements b) no of var c) 55marks d) answer a) (2)

6. Write Python program to find the LCM of two positive numbers.

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Name of the Course	:	GE-1	Semester	: I
Name of the Paper	:	Programming With Python	Faculty Name	: Abha Vasal
Duration	:	1 Hour	Maximum Mar	ks: 20
Date of Test	:	25.10.2023		
		SET B		
1 Write a for correspon Sum =0 I =25	iding to t	he while loop given	(2)	
while I >0:				
Sum = Sum + I				
I = I- 6				
print(Sum)				
2. What is the output of following i. 6 % 10 +1 4 -24 * 5 // 5 ii. 2 + 3 ** 2 // 4 % 3 iii a = "32 * 76" what will be the value stored in a			(6)	
iv $a = 'hello' * 5$				
v. a = 'string' > 'Strings	s' what w	ill be the value stored in a		
v math.floor(12.33)				
3. Write an assignment if age >=18: Status='major' else: Status='minor'	stateme	nt using single conditional expression	(2)	
4. Write a program to p 1 12 123	orint the j	oattern	(4)	
` .	ing are v	er of lines and print pattern accordingly alid identifiers? If they are invalid, the d)valid_var	• •	e of violation.
6. Write a python progr 0 1 1 2 3 5 8 13 2	(4)			

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Name of the Course: GE-1 Semester Name of the Paper: **Programming With Python** Faculty Name : Abha Vasal Maximum Marks: 20 Duration 1 Hour Date of Test 25.10.2023 SET C 1. Write python programme to find greatest common divisor of two numbers input by user. (4) 2. What will be the output of the following (5) a) math.floor(67.33) b) -6*21 + 8/16*3 + 60c) Sum=0 N=5while N > 0: if N % 2 ==0: Sum = Sum + N*2N = N-1print(sum) d) sum=0for a in range(5): sum += a**2print(sum) e) "python" *3 >"Hello" -5 3. How many times and for what values of iterable variables will the following loops execute (4) a) for I in range(5): c) for I in range(15,3,-2): print(I) print(I) b) for I in range(10,5, 1): d) for j in range(1,1): print((j) print(I) 4. Write python program to Print the pattern (4) CCC DDDD (Ask user to enter number of lines. Check whether n is positive according print pattern) 5. Show output and stepwise execution (3) N=3M=2Sum=0 For i in range(N, 1, -1): For j in range(M, 1,-1): Sum = Sum + i + jprint(Sum)

A BB

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Semester

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Name of the Course:

GE-1

Name of the Paper: Programming With Python Faculty Name : Abha Vasal Duration Maximum Marks: 20 1 Hour Date of Test 25.10.2023 SET D 1. Write python program to check if input number is a prime number also check if the number is a positive quantity (5) 2. What will be the output of following (6) a) N=5 Sum=0 for i in range(1,N): for j in range(N, i, -1): Sum = Sum + i + jprint(Sum) b) "Python" > "python" *2 c) 12 + 6 * 2 ** 3 != 9 // 3 -3 and 27 >= 28/ 9d) 13//3*4**2-12 e) S=5 while S < 0: print(s) S = S - 1f) for i in range (10,20): if (i%4 !=0): continue print (i) 3. Write a program to find reverse of a number entered as input by the user. Also check if the number entered is an even number. (4) 4. Rewrite the program using for loop (2) total=0 count=1 while count<5: total+=count count+=1print (total)

5. Explain break and continue statements and when do we use it? Give example

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(3)

Name of the Course : GE-1 Semester : I
Name of the Paper : Programming With Python Faculty Name : Abha Vasal

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SET E

1. What is an assert statement? Why is it used? Write a program that accepts input as length and breath from user and compute the area of triangle, also check that the sum of the length of any two sides is greater than the third side. (4)

2. Explain break and continue statements and when do we use it? Give example (3)

3. What will be the output of the following code:

(2)

```
i = 1
while True:
    if i%2 == 0:
        break
    print( i )
    i += 2
```

- 4. Write a python program to find factorial of a positive integer entered by the user (4)
- 5. What will be the output of following. Show step by step evaluations (5)
 - math.ceil(65.65)
 - 3 ** 4 //3 +5 > 9 or 4 != 9
 - sum=0

```
for i in range(1, 3):

for j in range(1,3):

sum += i*2 +j

print("sum is ', sum)
```

• sum=0

for a in range(4): sum +=a**2

print(sum)
"hi!" > 'hi' or 25 > 24/3

6. Write an assignment statement using single conditional expression

(2)

```
if age >=18:
Status='major'
else:
Status='minor'
```

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