SHRI MATA VAISHNO DEVI UNIVERSITY, KATRA

B. Tech. (CSE) Minor-I Examination (Even Semester) 2023-24

Total Number of Pages: [1]

Entry No: 2 3 b C S 0 1 0

Total Number of Questions: [4]

Date: 27th Feb, 2024

Course Title: Programming Using Python

Course Code: CSP DC102

Max Marks: [20]

Time Allowed: 1 Hour (10:45 to 11:45AM)

Section – A

[6x1.5=9]

Q1. What shall be the output of the following:

a. print(100//6/3+8+3**3)

b.
```
for i in range (0, 5, 1):
    for j in range (i,5-1,1):
        print(" ", end="")
    for k in range (0, 2*i +1, 1):
        print ("B", end="")
    print()
```

c.
```
lines=5
for i in range (0, (lines//2)+1, 1):
    for j in range (0, i+1, 1):
        print("*", end ="")
    print()
```

d.
```
grades = ["A1", "A2", "B1", "B2"]
for x in grades:
    if x == "B1":
        continue
    print(x)
```

e.
```
a = "perseverance"
print (a[-16])
```

f.
```
s = "Hi! Welcome to SMVDU"
value = "to" not in s
print(value)
```

Section – B

[2,2]

Q2. (i) What is the difference between = = and *is* operator in Python?

(ii) Give the output of following Python code:
```
myStr = 'SMVDU is the best University'
print(myStr [15 : : 1])
print(myStr [-10 : -1 : 2])
```

Q3. What are the key features of Python? Explain in details. [4]

Q4. Write a Python program to generate list of Fibonacci number up to n Fibonacci numbers. [3]