Q1. Using Python script as a calculator

Create the variables n, r, p and assign them values 10, 5, and 100 respectively. Then

evaluate the following expression in the Python console.

𝐴 = 𝑝 (1 + 𝑟/ 100) n

Ans b. 162.89

Q2. In a given string format operation, how will you print the given string.

A = 10

B = 20

Str = "There are {} students in the class, with {} who play at least one sport."

Ans c. print(string.format(b,a))

Q3. In a given sample string, How do you print a double quoted string in between a

regular

string using the escape character?

Sample output = It goes without saying, “Time is Money”, and none can deny it.

Ans a. print(“It goes without saying, \“Time is Money\”, and none can deny it.”)

Q4. What will be the output of the following code?

x = lambda a,b: a//b

x(10,3)

Ans b. 3

Q5. What will be the output of the following code?

A = 10

B = 12

print("Smaller") if A == B else print("Greater") if A < B else print("True")

Ans c. Greater

Q6. What will be the output of the following code?

Ans c. NameError: name 'numpy' is not defined

Q7. Create a string called ‘string’ with the value as “Machine Learning”. Which code(s)

is/are appropriate to slice the substring “Learn”?

Ans d. string[slice(8,13,1)]

Q8. Create a sequence of numbers from 10 to 25 and increment by 4. What is the index

of the

value 18?

Ans b. 2

Q9. Which of the following is true with respect to the below codes?

Ans a. num1 = num2

Q10.A Python NameError exception is raised when: -

Ans a. Trying to access a variable which has not been defined

Q11.What type of exception will be raised for the code given below?

Ans c. Value Error

Q12.A FileNotFoundError exception is raised by operating system errors when: -

Ans b. A file or directory is requested but does not exist in the working directory

Q13.Consider a variable Z. The value of Z is "ID-5632". Data type of Z is: -

Ans b. Character

Q14.Which of the following variable(s) are character data type?

Ans d. All of the above

Q15.Choose the symbol/s that does not have the ability to convert any values to string?

Ans b. “ “

Q16.Create a dictionary ‘Country’ that maps the following countries to their capitals

respectively:

Country India China Japan Qatar France

State Delhi Beijing Tokyo Doha Marseilles

Find 2 commands to replace “Marseilles” with “Paris” is:

Ans Country.update({"France":"Paris"})

Country["France"]="Paris"

Q17. Create the tuples given below

tuple\_1 = (1,5,6,7,8)

tuple\_2 = (8,9,4)

Identify which of the following code does not work on a tuple.

Ans d. tuple\_1[3] = 45

Q18. How many elements in the following data structure?

S={1,2,3,4,4,4,5,6}

Ans 6

Q19.Write a function which finds all pythagorean triplets of triangles whose sides are no

greater than a natural number N.

Ans

def pythagorean\_triplets(N):

for a in range(1,N-1):

for b in range(a+1,N):

for c in range(b+1,N+1):

a2=a\*\*2

b2=b\*\*2

c2=c\*\*2

if (a2+b2==c2):

print(a,b,c)

N=int(input("Enter a limit: "))

print(pythagorean\_triplets(N))