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MONTHLY TEST-II JULY 2019-20
CLASS XII
COMPUTER SCIENCE

M.MARKS: 35
TIME: 90MIN

ALL QUESTIONS ARE COMPULSORY.

Q.1

(1) What is the significance of having function in a program ? 2M

(2) From the program code given below, identify the parts mentioned below: 2M

```
def prcessNnumber(x):  
    x=72  
    return x+3  
y=54  
res=processNumber(y)
```

(3) Predict the output produced by it: 2M

```
def power(b, p):  
    y=b**p  
    return y  
def calcsquare(x):  
    a=power(x, 2)  
    return a  
n=5  
result=calcsquare(n)+power(3, 3)  
print(result)
```

(4) What do you understand by function? Write the types of function are there in python ? 2M

(5) Write the syntax for function declaration in Python. 1M

(6) What is the difference between the formal parameters and actual parameters ? What are their alternative names ? Also, give suitable Python code to illustrate both . 3M

(7) What will be the output of following programs ?

| | |
|--|---|
| a) num=1 def myfnc(): global num num=10 return num print(num) print(myfunc()) print(num) | b) def increment(n): n.append([4]) return n L=[1,2,3] M=increment(L) print(L, M) |
|--|---|

4M

(8) Find the errors in code given below: 4M

| | |
|---|--|
| a) def minus(total, decrement) output = total - decrement print(output) return(output) | b) define check() N=input('Enter N:') i=3 answer = 1+i**4/N return answer |
|---|--|

(9) What is package ? How is a package different from module ? 2M

(10) What is the utility of built-in function help() ? 1M

(11) Why should the from <module> import <object> statements be avoided to import objects ? 2M

(12) Consider the following code: 2M

```
import random
print(int (20 +random.random()*5),end=' ')
print(int (20 +random.random()*5),end=' ')
print(int (20 +random.random()*5),end=' ')
print(int (20 +random.random()*5))
```

Find the suggested output option (i) to (iv). Also, write the least value and highest value that can be generated.

i)20 22 24 25

ii)22 23 24 25

iii) 23 24 23 24

iv) 21 21 21 21

(13) What is the difference between read() and readlines() function ? 2M

(14) Differentiate between the following :

a) f=open('diary.txt', 'r')

b) f=open(diary.txt, 'w')

2M

(15) What is the output of following code fragment? Explain.

```
out=file("output.txt", 'w")
out.write("Hello, world!\n")
out.write("How are you?")
out.close()
file("output.txt").read()
```

(16) A text file contains alphanumeric text say "an.txt". Write a program that reads this text file and prints only the numbers or digits from the file. 2M

(17) Write code to print just the last line of a text file "data.txt" 2M