

Class-XII COMPUTER SCIENCE Max Marks :30

- Q1a) Which of the following is not a valid variable name in Python? 1  
 i) 5Radius ii) \_radius iii) radius iv) radius\_
- b) Which of the following are keywords in Python? 1  
 i) check ii) elif iii) while iv) try
- c) Name the Python Library modules which need to be imported to invoke the following functions : 1  
 i) randint() ii) sqrt
- d) Find out error 2  
 S='computer'  
 Print (s)
- e) Find and write the output of the following Python code : 3  

```
def replace(M,N):
    for i in range(N):
        if M[i]%5==0:
            if i==N-1:
                M[i]=M[i]
            else:
                M[i]=M[i+1]
        if M[i]%3==0:
            M[i]=M[i-1]
```

L=[55,67,21,22,91]  
 replace(L,len(L))  
 for i in L:  
 print(i,end='#')

i) 67#67#67#22#91  
 ii) 67#67#67#22#91#  
 iii) 67#67#67#22#22#  
 iv) 67#67#22#22#91#

f) What possible output(s) are expected to be displayed on screen at the time of execution of the program from the following code? 3  

```
import random
colours=['i','o','e','n','w','g','d']
end=random.randrange(2)+3
begin=random.randrange(end)+1
for i in range(begin,end):
    print(colours[i],end='&')
```

Q2a) **for i in range (2,6,2):** 2  
**print(i\*'\$')**

b) Which of the options out of i) to iv) is correct datatype for the variable vowels as defined in the following python statement ? 1  
 vowels=('A' , 'E' , 'I' , 'O' , 'U')  
 i)List  
 ii)Dictionary  
 iii)Tuple  
 iv)Array

c) Which sql aggregate function is used to count all records of a table ? 1

d) Distinguish between having and where clause . 2

Q2e) Consider the following query : 1  
 SELECT name from class where subject LIKE '\_\_\_\_\_ Computer Science';

Which one of the following has to be added into the blank space to select the subject which has Computer Science as its ending string ?

a) \$    ii) \_    iii) ||    d) %

Q2f) Suppose list1 is [3, 4, 5, 20, 5, 25, 1, 3], what is list1 after list1.pop(2)? 2

(i) [3, 4, 20, 5, 25, 1, 3] (ii) [3,3, 4, 5, 20, 5, 25]  
(iii) [3, 5, 20, 5, 25, 1, 3](iv) [1, 3, 4, 5, 20, 5, 25,]

Q2g) A \_\_\_\_\_ is a device that connects dissimilar network 1  
a) repeater b) bridge c) router d) gateway

Q2h) Expand the term ARPANET 1

Q2i) What will be the output of the following program code fragment 1

```
w=open("u_july.txt","w")  
print(w.readable())
```

Q2j) Predict the output of following code if the input is : 1

```
1. 12,3,4,5,7,12,8,23,12  
l=eval(input("Enter a list:"))  
n=len(l)  
t=l[1:n-1]  
print(t)
```

Q2k) What is the output of the following program : 2

```
a=9  
def myfunc(a):  
    a = a + 2  
    a = a * 2  
    return a  
print (myfunc(a),'#',a)
```

Q2l) Sahil wants to transfer data across two continents at very high speed. Write the name of the transmission medium that can be used to do the same. 2

Q22) What is the output of this code 2  
>>> int("3"+"4")