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Sample Question Paper (Term-I)

Class : XII

Time Allowed : 90 Minutes

Subject : (083) Computer Science

Maximum Marks: 35

General instructions:

The paper is divided into 3 Sections- A, B and C.

Section A, consists of Question 1 to 25 and student need to attempt 20 questions.

Section B, consists of Question number 26 to 49 and student need to attempt 20 questions.

Section C, consists of Question number 50 to 55 and student need to attempt 5 questions.

All questions carry equal marks (0.77 mark per question).

Section – A

Section A consists of 25 questions, attempt any 20 questions

- Which of the following declarations is incorrect in python language?
 - `xyzp = 5,000,000`
 - `x y z p = 5000 6000 7000 8000`
 - `x,y,z,p = 5000, 6000, 7000, 8000`
 - `x_y_z_p = 5,000,000`
- What is the output of this expression, `3*1**3`?
 - 27
 - 9
 - 3
 - 1
- What keyword would you use to add an alternative condition to an if statement?
 - else if
 - elseif
 - elif
 - None of the above
- You have the following code segment:

```
String1 = "my"  
String2 = "work"  
print(String1 + string2)
```

What is the output of this code?
 - my work
 - work
 - mywork
 - my
- Which of the following function will return the total number of characters in a string.
 - `count()`
 - `index()`
 - `len()`
 - all of these
- Which of the following is not an immutable data type:
 - string
 - complex
 - list
 - tuple
- Choose the correct option with respect to Python
 - Both tuples and lists are immutable.
 - Tuples are immutable while lists are mutable.
 - Both tuples and lists are mutable.
 - Tuples are mutable while lists are immutable.

8. Which of the following statement will create an empty tuple?

- A. P = ()
- B. Q = tuple()
- C. Both of the above
- D. None of the above

9. What would the following code print?

```
d = {'spring': 'autumn', "autumn": "fall",  
"fall": "spring"}
```

```
print (d["autumn"])
```

- A. autumn
- B. fall
- C. spring
- D. Error

10. Predict the output of the following code

```
def func1(list1):  
    for x in list1:  
        print(x.lower(),end="#")  
func1(['New','Dehli'])
```

- A. [New,Dehli]
- B. new#dehli#
- C. newdehli#
- D. New#Dehli#

11. Choose correct statement .

- A. Default values overrides the values passed by the user
- B. Default argument are declared before the positional argument
- C. Values passed by user overrides the default values
- D. All are correct

12. A variable defined inside function body is known as :

- A. global
- B. local
- C. outer
- D. inside

13. Syntax for closing a file:

- A. closefile(<fileobject>)
- B. <fileobject>.close()
- C. <filename>.closer()
- D. closefile.<fileobject>

14. Which function is used to read all the lines?[U]

- A. readlines()
- B. readall()
- C. read()
- D. readline()

15. Which function is used to write all character in file?

- A. writecharacters()
- B. writeall()
- C. write()
- D. writecharacter()

16. If we do not specify file mode while opening a file, the file will open in mode.

- A. read
- B. write
- C. append
- D. Error occurs

17. The _____ method of pickle module writes data into a binary file?

- A. load()
- B. dump()
- C. seek()
- D. tell()

18. Choose the correct code to write one record of student (roll_no, name, gender, marks) in binary file named mybinary.dat:?
- A. `fileobject=open("mybinary.dat", "wb")`
 B. `fileobject=open("mybinary.dat", "wb")`
`pickle.dump(listvalues, fileobject)`
 C. `import pickle`
`listvalues=[1,"Mahi" 'F', 29]`
`fileobject=open("mybinary.dat", "wb")`
`pickle.dump(listvalues, fileobject)`
 D. `import pickle`
`listvalues=[1,"Mahi" 'F', 29]`
`fileobject=open("mybinary.dat", "wb")`
`pickle.dump(listvalues, fileobject)`
`fileobject.close()`
19. Binary files are human readable or not:
- A. Yes
 B. No
 C. Sometimes
 D. Depends on data
20. Disha wants to add new item in a binary file while keeping old data in file, which opening mode she must use:
- A. wb
 B. wb+
 C. ab
 D. a
21. Which method is used for writing data in binary file?
- A. `dump()`
 B. `load()`
 C. `seek()`
 D. `tell()`

22. A ____ function allows to write a single record into each row in CSV file.
- A. `writerows`
 B. `write row`
 C. `writer`
 D. None of above

23. _____ object is used to read data from csv file?
- A. `load()`
 B. `read()`
 C. `reader()`
 D. `readlines()`

24. What is the output of the following program?

```
import csv
d=csv.reader(open('c:\PYPRG\ch13\city.csv'))
next(d)
for row in d: print(row)
if the file called "city.csv" contain the following
details
chennai,mylapore
mumbai,andheri
```

- A. `chennai,mylapore`
 B. `mumbai,andheri`
 C. `chennai`
`mumbai`
 D. `chennai,mylapore`
`mumbai, andheri`

25. Which is correct statement to import csv module:
- A. `import csv`
 B. `import csv module`
 C. `Import csv`
 D. `Import csv module`

Section – B

Section B consists of 24 questions, attempt any 20 questions.

26. What will be the output of below Python code?

```
tuple1=(5,1,7,6,2)
```

```
tuple1.pop(2)
print(tuple1)
```

- A. (5,1,6,2)
- B. (5,1,7,6)
- C. (5,1,7,6,2)
- D. Attribute error

27. Suppose content of 'Myfile.txt' is
Honesty is the best policy.

What will be the output of the following code?

```
myfile = open("Myfile.txt")
x = myfile.read()
print(len(x))
myfile.close()
```

- A. 5
- B. 25
- C. 26
- D. 27

28. The record of a student (Name, Roll No, Marks in five subjects and percentage of marks) is stored in the following list:

```
stRecord = ['Raman','A-36',[56,98,99,72,69], 78.8]
```

Write Python statements to retrieve 69 from the list stRecord.

- A. print(stRecord [2][4])
- B. print(stRecord [2][-1])
- C. print(stRecord [-2][1])
- D. all of the mentioned

29. What will be the output when the following code is executed?

```
a = 'hellopython'
i = 0
while i < len(a):
    i += 1
    pass
print('Value of i :', i)
```

- A. 10
- B. 11
- C. 12
- D. 9

30. What will be the output when the following code is executed?

```
numbers = [6, 5, 3, 8, 4, 2, 5, 4, 11]
```

```
sum = 0
for val in numbers:
    sum = sum+val
print("The sum is", sum)
```

- A. 48
- B. 47
- C. 46
- D. None of the above

31. Given a string: *s="String"*

Which statement converts string 's' into List 'L'.

- A. L=s
- B. L=list(s)
- C. L=s[::]
- D. all of the mentioned

32. Ms. Shruti is working on the Books.dat file but she is confused about how to read data from the binary file. Suggest a suitable line in statement1 for her to fulfill her wish.

```
import pickle
def ReadData():
    f1=open("Books.dat",'rb')
    ..... #statement1
    print(data)
    f1.close()
ReadData()
```

- A. load()
- B. data=pickle.load(f1)
- C. data=f1.load()
- D. f1.load(data)

33. Navin is trying to write a tuple t1 = (1,2,3,4,5) on a binary file item.bin. Consider the following code written by him.

```
import pickle
t1 = (1,2,3,4,5)
f = open("item.bin",'wb')
pickle.____ #Statement 1
f.close()
```

Identify the missing code in Statement 1.

- A. dump(f,t1)
- B. dump(t1, f)
- C. write(t1,f)

D. load(f,t1)

34. What will be the output of the following python code:

```
def mul (num1, num2):  
    x = num1 * num2  
x = mul(20,30)
```

- A. 600
- B. None
- C. Null
- D. 0

35. Which of the following operators is the correct option for power(a,b) in python?

- A. a ^ b
- B. a**b
- C. a ^ ^ b
- D. a ^ * b

36. Which of the following function header is Correct :

- A. def fun(x=1,y)
- B. def fun(x=1,y,z=2)
- C. def fun(x=1,y=1,z=2)
- D. def fun(x=1,y=1,z=2,w)

37. What is the output of the program given below?

```
x = 50  
def func (x) :  
    x = 2  
func (x)  
print ('x is now', x)
```

- A. x is now 50
- B. x is now 2
- C. x is now 100
- D. Error

38. Based on the below code, What maximum value can be assigned to TO and minimum value can be assigned to FROM.

```
Import random  
AR = [20, 30,40,50, 60, 70]  
FROM = random.randrange(1,3)  
TO = random.randrange(2,4)
```

```
for K in range(FROM, TO+1):
```

```
    print(AR, end='#')
```

- a) 3,1
- b) 4,1
- c) 3,2
- d) 4,2

39. What will be the output for the below code snippet:

```
def div(lst,n):  
    for i in range(0,n):  
        if lst[i]>30:  
            lst[i]=5  
        else:  
            lst[i]=lst[i]//2
```

```
lt=[45,20,23,54,5]
```

```
div(lt,len(lt))
```

```
for i in lt:
```

```
    print(i,end='#')
```

- A) 5#10.0#11.5#5#2.5#
- B) 5#10#11#5#2#
- C) 5#0#1#5#1#
- D) 5#22#25#5#7#

40. You have given a file 'book.txt'

my kv is best in the world

What will be the output of the following code?

```
myfile = open("book.txt")
```

```
str = myfile.read()
```

```
size = len(str)
```

```
print(size)
```

```
myfile.close()
```

```
(A) 27
```

```
(B)18
```

```
(C) 22
```

```
(D)25
```

41. Predict the output for the below code:

```
def func(S):
```

```
    k=len(S)
```

```
    m=""
```

```
    for i in range(0,k):
```

```
        if S[i].islower( ):
```

```
            m=m+S[i].upper( )
```

```
        elif S[i].isdigit( ):
```

```

m=m+'*'
elif S[i].isupper():
    m=m+S[i].lower()
else:
    m=m+'@'
print(m)
func('COMPUTERScience 083')

```

- a. COMPUTERScience 083
- b. computersCIENCE*@@@
- c. computersCIENCE@*****
- d. COMPUTERScience@***

42. The file "new.txt" contains the following content:

my poem

Humpty Dumpty sat on a wall

Humpty Dumpty had a great fall

All the king's horses and all the king's men

Couldn't put Humpty together again

Poem is good but do not like

Considering the above file, what output will be produced by the following code?

```
f=open("new.txt",'r')
```

```
a=f.readline()
```

```
b=f.read(4)
```

```
c=f.readline()
```

```
d=f.readline()
```

```
print(c)
```

```
f.close()
```

(A) a great fall

(B) ty Dumpty sat on a wall

(C) Dumpty sat on a

(D) Humpty together again

43. What is the purpose of 'r' as prefix in the given statement?

```
f = open(r "d:\color\flower.txt")
```

(A) To make it relative string

(B) To make it new string

(C) To make it raw string

(D) To make it reverse string

44. Identify the keyword to be used in statement1 so that the identifier value is not local to the function and accessible throughout the program

```
a=30
```

```
def call (x):
```

```
..... a #Statement1
```

```
if a%2==0:
```

```
    x=x+a
```

```
else:
```

```
    x=x-a
```

```
return(x)
```

```
x=20
```

```
print(call(35), end='#')
```

```
print(call(40),end='#')
```

A) local

B) global

C) Global

D) constant

45. What error is returned by following statement, if file "try.txt" does not exist?

```
f = open("try.txt")
```

A. Not found

B. FileNotFoundError

C. File does not exist

D. No error

46. You have given a file 'teacher.txt'

I am a student of class XII. My best teacher is Mr.

N. K. Singh. He is very nice person. He teaches

me computer science. I respect him very much.

Every student love him.

What will be the output of the following code? infile

```
= open("teacher.txt")
```

```
xa= infile.read()
```

```
b = x.count('is')
```

```
print(b)
```

```
infile.close()
```

A. 2

B. 3

C. 4

D. 5

47. Which option is correct about this program?

```
f=open("ss.txt","wb")
```

```
print("Name of the file:",f.name)
```

- ```
f.flush()
f.close()
```
- A. Compilation error
  - B. Runtime error
  - C. No output
  - D. Flushes the file when closing them

48. Assume that some content is to be added to a text file, 'student.txt'. Write the missing part in statement1.:

```
myfile = open("student.txt", 'a')
data=" Computer Science 083"
myfile.(data)
myfile.close()
```

- A. writeline
- B. write
- C. append
- D. add

49. What will be the output of below Python code?

```
tupl=([2,3],"abc",0,9)
tupl[0][1]=1
print(tupl)
```

- A. ([2,3],"abc",0,9)
- B. ([1,3],"abc",0,9)
- C. ([2,1],"abc",0,9)
- D. Error

### Section – C

**Section C consists of 06 questions, attempt any 05 questions.**

Subrat Ray is learning to work with Binary files in Python using a process known as Pickling/unpickling. His teacher has given him the following incomplete code, which is creating a Binary file namely Mydata.dat and then opens, reads and displays the content of this created file.

```
import _____ #Statement-1

sqlist=list()

for k in range(5):
 sqlist.append(k*k)

fout=open("mydata.dat", _____) #Statement-2
_____ (sqlist,fout) #Statement-3

fout.close()

fin=open("Mydata.dat", "rb")
```

```
mylist=_____ (fin) #Statement-4
_____ # Statement-5
print(mylist) #Statement-6
```

50. Which module should be imported in Statement-1

- A. pickle
- B. csv
- C. file
- D. text

51. Which file mode to be passed to write data in file in Statement-2.

- A. w+
- B. w
- C. wb
- D. a

52. What should be written in Statement-3 to write data onto the file.

- A. dump()
- B. write()
- C. pickle.dump()
- D. pickle.load()

53. Which function to be used in Statement-4 to read the data from the file.

- A. load()
- B. readline()
- C. readlines()
- D. pickle.load()

54. What should be written in Statement-5 to close the file.

- A. fin.close()
- B. fout.close()
- C. close(fin)
- D. close(fout)

55. The output after executing Statement-6 will be –

- A. 0 1 4 9 16
- B. 1, 4, 9, 16, 25
- C. [0, 1, 4, 9, 16]
- D. [1, 4, 9, 16, 25]

0-0-o- Best of Luck –o-0-0