DELHI PRIVATE SCHOOL L.L.C.
Affiliated to C.B.S.E., DELHI
(Approved & Recognized By Ministry of Education - United Arab Emirates)

PRE-BOARD EXAMINATION (2021-22)
TERM 1-SET B

Subject: COMPUTER SCIENCE   **Max. Marks: 35**

Grade: XII   **Time: 90 Minutes**

Name: **Section:**   **Roll No:**

General Instructions:

- *The question paper is divided into 3 Sections - A, B and C.*
- *Section A, consist of 25 Questions (1-25). Attempt any 20 questions.*
- *Section B, consist of 24 Questions (26-49). Attempt any 20 questions.*
- *Section C, consist of 6 case study-based Questions (50-55). Attempt any 5 questions.*
- *All questions carry equal marks*
- *This question paper consists of 9 printed pages.*
- *All answers to be marked in the OMR sheet provided.*

Section-A

This section consists of 25 Questions (1 to 25). Attempt any 20 questions from this section. Choose the best possible option.

1. Choose invalid identifier : -
   - **a.** My_age
   - **b.** _AGE
   - **c.** 1st_Value
   - **d.** MyAge

2. Which one of the followings is a jump statement:
   - **a.** break
   - **b.** continue
   - **c.** return
   - **d.** All the above

3. Which of the following is a mutable sequence datatype:
   - **a.** string
   - **b.** list
   - **c.** tuple
   - **d.** All the above

4. Suppose t=(1,2,4,3),which of the following is incorrect?
   - **a.** print(t[3])
   - **b.** t[3]=45
   - **c.** print(max(t))
   - **d.** print(len(t))

5. Which file can open in any text editor and is in human readable form?
   - **a.** Binaryfiles
   - **b.** Videofiles
   - **c.** Datafiles
   - **d.** Textfiles

6. Csv stands for:
   - a. Comma Separated Values
   - b. Common Shift Value
   - c. Chief Super Value
   - d. Common Separated Value

7. Which of the following can be used to delete item(s) from a dictionary?
   - a. del statement
   - b. get()
   - c. getitem()
   - d. All of these

8. If no argument is given,then pop() returns and removes the_____element of the list.Fill in the Blankspace.
   a. None
   b. first
   c. last
   d. all
9. Which method can not be used to read from files?
   a. read()
   .b readlines()
   c. readline()
   d. readlines(<filename>)
10. The file mode is used when user want to write data into a binary file.
   a. rb
   b. r+
   c. wb
   d. w+
11. Which module is used with binary files?

   a. math
   b. csv
   c. random
   d. pickle
12. What is the default delimiter of a csv file:
   a. NewLineCharacter'\n'
   b. Comma
   c. TabSpace
   d. BlankSpace
13. 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
14. Best option for the python function is
   a. A function is a complete program
   b. A function is a block of code identified by its name

   c. A function must return a values
   d. A function can be called without any call
15. What is printed by the following statements?
   D1={"cat":17,"dog":6,"elephant":23,"bear":20}
   print("dog"in D1)
   a. True
   b. False
   c. Error
   d. None
16. If you are opening a binary file in read mode,then the file must exist otherwise what happens?
   a. Compile time error occur
   b. Run-time error raises
   c. Not any error raises
   d. None of these
17. Which of the following represents mode of both writing and reading binary format in file?

   a. wb+
   b. wb
   c. w
   d. w+
18. Which statement(s) are related to pickling?

   a. process by which python object is converted to a bytestream
   b. dump() is used for pickling

   c. We need to close the file after pickling
   d. All of these
19. Which of the following creates a tuple?

   a. tuple1=("a","b")
   b. tuple1[2]=("a","b")
   c. tuple1=(5)*2
   d. None of the above

20. The_____method ofpickle module reads data from a binary file?

a. load()   b. dump()

c. seek()   d. tell()

21. Which operator is known as floor division in python:-

a. /   b. %

c. //   d. **

22. Is it necessary to have header line as first line in csv file:

a. No   b. Yes

c. Both Yes and No   d. None

23. In which format does the readlines() function give the output?

a. Integer type   b. list type

c. string type   d. tuple type

24. Choose correct output for the following code

```
def check(x,y):
  if x!=y:
     return x+5
  else:
     return y+10
 print(check(10,5))
```

a. 15   b. 20

c. 5   d. 10

25. To open a file c:\scores.txt for writing,we use_____

a. outfile=open("c:\scores.txt","w")   b. outfile=open("c:\\scores.txt","w")

c. outfile=open(file="c:\scores.txt","w")   d. outfile=open(file="c:\\scores.txt","w")

Section B

This section consists of 24 Questions (26 to 49). Attempt any 20 questions

26. Write the output of the following:

t1=(1,2)
t2=(2,1)
print(t1==t2)

a. True   b. False

c. Error   d. None of the above

27. You have given a file 'stu.txt'

My school is best in the world.

I am a best student.

I like computer.

What will be the output of the following code?

myfile=open("stu.txt")
str=myfile.readlines()
print(str)

a. read first line   b. read entire lines of the file

c. read second file   d. None of the above

28. What will be the output of the following code segment?

l=['A','a','Aa','aA']
print(max(l))

a. 'aA'	b. 'A'
c. 'a'	d. 'Aa'

29. How many times will the following code be executed
```
for i in range(1,15,5):
    print(i,end=',')
```

a. 3	b. 4
c. 1	d. Infinite

30. What is the output of the following?
```
x=123
for i in x:
  print(i)
```

a. 1 2 3	b. 123
c. Error	d. 1

31. What will be the output of the following code segment?
```
list1=['Red','Green','Blue','Cyan','Magenta','Yellow','Black']
print(list1[-4:0:-1])
```

a. ['Cyan','Blue','Green','Red']	b. [ ]
c. ['Cyan','Blue','Green']	d. ['Cyan','Magenta','Yellow','Black']

32. Following code is the definition of a dictionary CINEMA,with a method in python to search and display all content in a pickled file Cinema.dat,where Mtype key of dictionary is matching with the value 'Comedy'.
What will be there in blanks mentioned as Line1 and Line2 in the following code:
```
CINEMA={'MNO':____B ,'MNAME':___,'MTYPE':____}
importpickle
def Search():
 file1=open('Cinema.dat','rb+')
 try:
   while True:
     CINEMA=_____#Line1
       if_____ #line2
           print(CINEMA)
 except EOFError:
   file.close()
```

a. Line1:pickle.dump(file1)	b. Line1:pickle.load(file1)
Line2:CINEMA['Mtype']=='Comedy':	Line2:CINEMA['Mtype']=='Comedy':
c. Line1:load(file1)	d. Line1:pickle.dump(file1)
Line2:CINEMA['Mtype']=='Comedy':	Line2:'Mtype'=='Comedy'

33. What will be the result of the following code:
```
def func1(a):
 a=a+'1'
 a=a*2
 print(a)
func1("good")
```

a. good	b. good2good
c. good1good1	d. Error

34. Identify the error in the following code:

```
import pickle
mix_data=['hundred',2,[3,4,5]]
withopen('mixeddata.dat','rb') as fout:
    pickle.dump(mix_data,fout)
```

a. Not any error is there

b. with open('mixeddata.dat','w')

c. with open('mixeddata.dat','wb')

d. None of these

35. Evaluate the following expression and identify the correct answer.

16-(4+2)*5+2**3*4

a. 54

b. 46

c. 18

d. 32

36. Following code is written to update a record in file opened with following code.
What will be there in blanks mentioned as Line1 and Line2 in the following code:

```
import pickle
fin=open('emp.dat','rb+')
try:
    while True:
        _____=fin.tell() #line1
        stu=pickle.load(fin)
        if emp['sal'] in [2000,500010000]:
            emp['sal']+=500
        fin._____(_____) #line2
        pickle.dump(emp,fin)
except EOFError:
    fin.close()
```

a. Line1:position=fin.tell()
    Line2:fin.seek(position)

b. Line1:position=fin.tell()
    Line2:fin.tell(position)

c. Line1:fin.seek()
    Line2:fin.tell(position)

d. Line1:fin.seek()
    Line2:fin.tell()

37. Identify correct output for the following code

```
def fun4(a,b=100):
    total=a+b
    print(total)
fun4(50,20)
```

a. 100

b. 120

c. 150

d. 70

38. Choose the correct option:

Statement1:Local Variables are accessible only within a function or block in which it is declared.

Statement2:Global variables are accessible in the whole program.

a. Statement1 is correct but Statement2 is incorrect

b. Statement2 is correct but Statement1 is incorrect

c. Both Statements are Correct

d. Both Statements are incorrect

39. Based on the below code snippet. Find the maximum and minimum value assigned to variable FROM.

```
import random
AR=[20,30,40,50,60,70]
```

```
FROM=random.randint(1,3)
TO=random.randint(2,4)
for K in range(FROM,TO+1):
  print(AR[K],end='#')
```

a. 1,3	b. 4,1
c. 1,4	d. 3,1

40. What is the output of the following code snippet?

```
def minmax(lst):
   s=l=lst[0]
   for i in lst:
        if i>l:
            l=i
        if i<s:
            s=i
   print(s,l)
lt=[45,2,23,54,5]
minmax(lt)
```

a. 2,5	b. 2,23
c. 2,54	d. 54,2

41. You have given a file 'stu.txt'

My school is best in the world.

I am a best student.

I like computer.

What will be the output of the following code?

```
myfile=open("stu.txt")
str=myfile.readlines()
print(len(str))
```

a. 1	b. 2
c. 3	d. 4

42. What is the output of the following code snippet?

```
def short(lst,n):
   for i in range(0,n):
       if len(lst[i])>4:
          lst[i]=lst[i][0:4]
       else:
          lst[i]=lst[i]
sub=['IP','Hindi','CS','Mathematics','Chemistry','Physics']
short(sub,6)
for i in sub:
   print(i,end=',')
```

a. IP,Hindi,CS,Mathe,Chemi,Physi,	b. IP,Hind,CS,Math,Chem,Phys,
c. IP,Hindi,CS,Mathematics,Chemistry,Physics,	d. IP,Hin,CS,Mat,Che,Phy,

43. Consider the following code and choose correct answer

```
def nameage(name="kishan",age=20):
  return age,name
print(nameage(20,"kishan"))
```

  a. 'kishan'   b. 20

  c. ('kishan',20)   d. (20,'kishan')

44. Predict the output for the below code snippet:

```
value=50
def display(N):
  global value
  value=25
  if N%7==0:
    value=value+N
  else:
    value=value-N
  print(value,end='#')
display(20)
print(value)
```

  a. 50#50   b. 50#5

  c. 50#30   d. 5#5#

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

```
def div(lst,n):
  for i in range(0,n):
    if lst[i]%5==0:
      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. 50#25#11.5#27.0#10#   b. 50#25#11#27#10#

  c. 50#25#1#0#10#   d. 225#100#1#0#25#

46. Predict the output for the below code:

```
def func(S):
  k=len(S)
  m=''
  for i in range(0,k):
    if S[i].isalpha():
      m=m+S[i].upper()
    elif S[i].isdigit():
      m=m+'0'
    else:
      m=m+'#'
```

```
    print(m)
func("Python3.9")
```
a. Python 0 # 0 #   b. Python0#0#
c. PYTHON # 0 # 0   d. PYTHON0 # 0

47. You have given a file 'school.txt'
I read in class XII.My school name is DPS.I like it very much.I live in India
What will be the output of the following code?
```
infile=open("school.txt")
x=infile.read()
y=x.count('in')
print(y)
infile.close()
```
a. 2   b. 3
c. 4   d. 5

48. Predict the Output for the below code
```
a=30
def call(x):
    global a
    if x%2==0:
        x=x+a
    else:
        x=x-a
    return(x)
print(call(67),end='#')
print(call(40),end='#')
```
a. 67#40   b. 37#70#
c. 27#60   d. Indentation Error

49. Write the output of the following:-
```
a=(23,34,65,20,5)
print(a[0]+a.index(5))
```
a. 28   b. 29
c. 27   d. 26

<div align="center">

Section-C

Case Study based Question

</div>

This section consists of 6 Questions (50 -55). Attempt any 5 questions

Latika is making software on "Items&theirprices" in which various records are to be stored/retrieved in STORE.CSV data file. It consists some records(Item &Price).Shehas written the following code in python.As a programmer,you have to helper to successfully execute the program.

```
import_____ #Statement-1
def AddItem(Item,Price)___ #Statement-2
    f=open("STORE.CSV",_____) #Statement-3
    fw=csv.writer(f)
```

```
        fw.writerow([Item,Price])
        _____ #Statement-4
    def ShowRecord():
        with open("STORE.CSV","r") as NI:
            NewItem=csv._____(NI) #Statement-5
            for rec in NewItem:
                print(rec[0],"#",rec[1])
    AddItem("Sugar",38.0)
    AddItem("Rice",48.50)
    ShowRecord() #Statement-6
```

50. Which module should be imported in Statement-1.

a.	pickle	b.	csv
c.	file	d.	text

51. Which symbol is missing in statement-2

a.	@	b.	:
c.	,	d.	.

52. Which file mode to be passed to addnew record in Statement-3.

a.	w+	b.	w
c.	a	d.	wb

53. What should be written in Statement-4 to close the file?

a.	close()	b.	fw.close()
c.	f.close()	d.	csv.close()

54. Which function to be used in Statement-5 to read the data from a csv file.

a.	read()	b.	readline()
c.	readlines()	d.	reader()

55. The output after executing Statement-6 will be

a.	("Sugar","38.0") ("Rice","48.50")	b.	Sugar38.0 Rice48.0
c.	Sugar,38.0 Rice,48.50	d.	Sugar#38.0 Rice#48.50

***