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ONLINE CLASSES **PYTHON**

COMPUTER SC.

INFORMATICS PRAC.

SAMPLE PAPERS

PYTHON MCQs

SAMPLE PAPER –2 MARKING SCHEME SUBJECT: COMPUTER SCIENCE

SuperNova-LearnPython, a YouTube channel dedicated to helping students to learn Python and computer science concepts.

The channel covers various topics related to computer science, including **Python** programming, data file handling, computer networking, SQL and many more.

If you're looking for video descriptions, notes, assignments, and previous years' question papers related to Python and computer science for class 11 and 12, I recommend checking out the **SuperNova-LearnPython** channel on YouTube.

You can find the channel here¹.

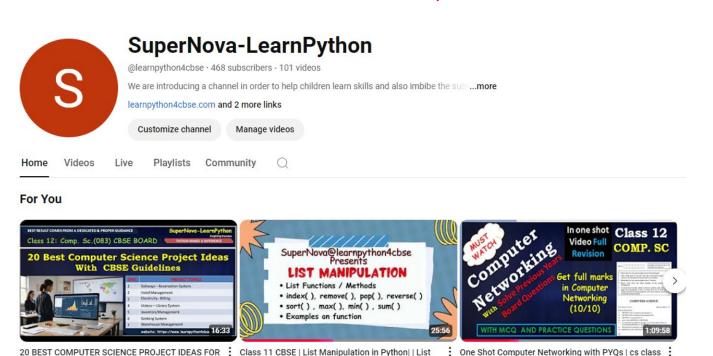
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CLASS 12 WITH GUIDELINES

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Functions | List Methods | | Class11 IP

34 views • 11 months ago

SAMPLE PAPER - MARKING SCHEME

Code: Learnpython4cbse-2/5(25CBSE02)

COMPUTER SCIENCE 12TH (CODE 083)

General Instructions:

Time: 3 Hrs. Max. Marks: 70

- 1. This question paper contains 37 questions.
- 2. All questions are compulsory. However, internal choices have been provided in some questions. Attempt only one of the choices in such questions
- 3. The paper is divided into 5 Sections- A, B, C, D and E.
- 4. Section A consists of 21 questions (1 to 21). Each question carries 1 Mark.
- 5. Section B consists of 7 questions (22 to 28). Each question carries 2 Marks.
- 6. Section C consists of 3 questions (29 to 31). Each question carries 3 Marks.
- 7. Section D consists of 4 questions (32 to 35). Each question carries 4 Marks.
- 8. Section E consists of 2 questions (36 to 37). Each question carries 5 Marks.
- 9. All programming questions are to be answered using Python Language only.
- 10. In case of MCQ, text of the correct answer should also be written.

	<u>SECTION A</u> [21x1= 21	.]
1	True	1
2	(a) ['xy','yz']	1
3	(a) False	1
4	(c) [9, 5, 6, <i>7</i> , 8]	1
5	t	1
6	[3, 4]	1
7	0 1 2	1
8	(b) Removes the first occurrence of a specified value from the list	1
9	(c) Calc (Y=25)	1
10	pickle	1
11	True	1

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PYTHON MCQs

```
3
29 (A)
    def write urgent lines():
        try:
            with open('Messages.txt', 'r') as input file:
            with open('UrgentLines.txt', 'w') as output file:
                for line in input file:
                    if 'urgent' in line.lower():
                           output file.write(line)
            print("Urgent lines have been written to 'UrgentLines.txt'.")
        except FileNotFoundError:
            print("The file 'Messages.txt' was not found.")
                                          OR
    (B)
    def count lines in file():
        try:
            with open('Paragraph.txt', 'r') as file:
                lines = file.readlines()
                print(f"Number of lines in 'Paragraph.txt': {len(lines)}")
        except FileNotFoundError:
            print("The file 'Paragraph.txt' was not found.")
                                                                                    3
30
   def push(stack, item):
       stack.append(item)
    def pop(stack):
       if len(stack) == 0:
           return "Stack is empty"
       return stack.pop()
    def reverse string(input string):
       stack = []
       # Push all characters of the string into the stack
       for char in input string:
           push(stack, char)
       reversed str = ""
       # Pop characters from the stack to reverse the string
       while len(stack) > 0:
           reversed str += pop(stack)
       return reversed str
    # Example usage
    input string = "Hello"
   print("Reversed string:", reverse string(input string))
                                          OR
```

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```
(A)
    R={"0M":76, "JAI":45, "B0B":89, "AU": 65, "ANU": 90, "TOM":82}
    def PUSH(S,N):
           S.append(N)
    def POP(S):
           if S!=[]:
           return S.popO
    else:
           return None
    ST=[]
    for k in R:
           if R[k] > = 75:
                 PUSH(ST,k)
    while True:
           if ST!=[]:
                 print(POP(ST),end="")
           else:
                 break
31
    (i) To list the BookTitle of FND type.
                                                                                                3
    SELECT BookTitle FROM LIBRARY WHERE Type = 'FND';
    (ii) To display a report listing BookTitle, Type and Price in descending order of price.
    SELECT BookTitle, Type, Price FROM LIBRARY ORDER BY Price DESC;
    (iii) To count the number of BookTitle, Who have FND type.
    SELECT COUNT(BookTitle) FROM LIBRARY WHERE Type = 'FND';
                                                OR
    (B) To insert a new row in the table LIBRARY.
    INSERT INTO LIBRARY (No, BookTitle, Type, Publication, Quantity, Price)
    VALUES (7, 'Windows 8 Basics', 'FND', 'McGraw', 7, 150);
```

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1002 | Mustafa | Smartphone | 2 | 10000

1003 | Dhwani | Headphone | | 1500 1

(III)

O_Id | C_Name | Product | Quantity | Price

1001 | Jitendra | Laptop 1 | 12000

2 1002 | Mustafa | Smartphone | 1 10000

1003 | Dhwani | Headphone |

(IV)

MAX(Price)

12000

33 (I) Write a function to read all the data from the file and display all records, where the total number of residents is less than 2000000:

1

| 1500

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```
import csv
def display small cities():
    with open('HealthSurvey.csv', 'r') as file:
        reader = csv.reader(file)
        # Skip the header if present
        next(reader)
        for row in reader:
             city = row[0]
             residents = int(row[1])
             if residents < 2000000:
                 print(row)
# Example Usage
display small cities()
(II) Write a function to count the number of records in the file:
import csv
def count records():
    with open('HealthSurvey.csv', 'r') as file:
        reader = csv.reader(file)
        # Skip the header if present
        next(reader)
   # Convert the reader object to a list and count the number of rows
             records = list(reader)
             count = len(records)
print(f"Number of records: {count}")
```

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```
# Example Usage
    count records()
34
       (a) SELECT NAME FROM STUDENTS WHERE
                                                                                               4
          ADDRESS IS NULL;
       (b) SELECT COUNT(PHONE) FROM STUDENTS;
       (c) SELECT GAME FROM SPORTS WHERE
          COACHNAME LIKE "%RAVI";
       (d)(A) SELECT * FROM SPORTS;
                          OR
       (B) ALTER TABLE SPORTS
       ADD TOURNAMENT VARCHAR(20);
35
    def AddAndDelete():
         import mysql.connector as mycon
         mydb=mycon.connect(host="localhost",user="root",passwd=" Pencil ", database=" ITEMDB
         ")
         mycur=mydb.cursor()
         no=int(input("Enter Student Admission Number: "))
         nm=input("Enter Student Name: ")
         pr=float(input("Enter percentage: "))
         cls=int(input("Enter class: "))
         query="INSERT INTO student VALUES ({},'{}',{},{});"
         query=query.format(no,nm,pr,cls)
         mycur.execute(query)
         mydb.commit()
         try:
          mycur.execute("Delete from student where ItemName='Pencil';")
           mycur.commit()
         except:
           mydb.close()
```

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```
[2x5= 10 Marks]
                                          SECTION E
                                                                                                         5
36
    (a) tell() method tells you the current position of cursor within the file.
             Syntax: file_object.tell()
     (b) import pickle
        def AddRegistration() :
             f=open("Registration.dat","ab")
             ans='y'
             rno=" "
             sname=" "
             class=" "
             Nos=0
             while ans=='y':
                               rno=input("Enter registration no..")
                               sname=input("Enter student name ")
                               class=input("Enter class")
                               Nos=int(Inputt"Enter number of subjects:"))
                               reglst=[rno.sname,class,Nos]
                               pickle.dump(reglst,f)
                               ans=input("Continue(y/n)")
             f.close()
        def CountRegistrationst):
                     f=open("Registration.dat", "rb")
                     count=0
                     try:
                                     while True:
                                                phonelst=p1ckle.load(f)
                                                count+=1
                                     prInt("Number of registrations ",count)
                      except EOFError:
                                     break
                                     f.close()
             AddRegistration()
             CountRegistrations()
```

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(v) MAN (Metropolitan Area Network) will be formed as network would span within a city.

OR

(iv) VoIP

a) Video Conferencing

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