MARKING SCHEME

Class: XII Session: 2024-25

Computer Science (083)

Time allowed: 3 Hours

Maximum Marks: 70

Q No.	SECTION A (21X1=21)	Marks
1.	False	(1)
	(1 mark for correct answer)	
2.	(A) #THONPROGRAM	(1)
	(1 mark for correct answer)	(1)
3.	(A) not (True) and False	(1)
	(1 mark for correct answer)	(1)
4.	(B) ['l', 'ter', 'atio', 'al']	(1)
	(1 mark for correct answer)	(1)
5.	ce lo	(1)
	(1 mark for correct answer)	(1)
6.	(B) False	(1)
	(1 mark for correct answer)	(1)
7.	(B) print(my_dict['apple', 'banana'])	(1)
	(1 mark for correct answer)	(1)
8.	(B) Removes the first occurrence of value x from the list	(1)
	(1 mark for correct answer)	(1)
9.	(C) 3	(1)
	(1 mark for correct answer)	(1)
10.	file.seek(0) (OR file.seek(0,0))	(1)
	(1 mark for correct answer)	(1)
11.	False	(1)
	(1 mark for correct answer)	(1)
12.	(C) 12#15%	(1)
	(1 mark for correct answer)	(1)
13.	Alter (or Alter Table)	(1)
	(1 mark for correct answer)	



4.4	(A) Details of all and ducta where a new operator in the lAngel	
14.	(A) Details of all products whose names start with 'App'	(1)
	(1 mark for correct answer)	(.)
15.	(D) CHAR	(1)
	(1 mark for correct answer)	(1)
16.	(B) count()	(1)
	(1 mark for correct answer)	(1)
17.	(B) FTP	(1)
	(1 mark for correct answer)	(1)
18.	(B) Gateway	(1)
	(1 mark for correct answer)	(1)
19.	(B) Packet Switching	(1)
	(1 mark for correct answer)	(1)
20.	(C) A is True but R is False.	(1)
	(1 mark for correct answer)	(1)
21.	(C) A is True but R is False.	(1)
	(1 mark for correct answer)	(1)

Q No.	SECTION B (7 X 2 =14)	Marks
22.	A mutable object can be updated whereas an immutable object cannot be	
	updated.	
	Mutable object: [1,2] or {1:1,2:2} (Any one)	(2)
	Immutable object: (1,2) or '123' (Any one)	(2)
	(1 mark for correct difference)	
	$(\frac{1}{2} \times 2 = 1 \text{ Mark for selecting correct objects})$	
23.	(I) Arithmetic operators: +,-	
	(II) Relational operators: >, >=	(2)
	($\frac{1}{2} \times 4 = 2$ Marks for each correct operator)	
24.		
	A) L1.count(4) OR	
	B) L1.sort()	(2)
	(1 mark for correct answer)	(2)

CLICK HERE



	(II)	
	A) L1.extend(L2)	
	OR	
	B) L2.reverse()	
25	(1 mark for correct answer)	
25.	(A), (C)	
	$(\frac{1}{2} \times 2 = 1 \text{ Mark})$	(2)
	Minimum and maximum possible values of the variable b: 1,6	
	$(\frac{1}{2} \times 2 = 1 Mark)$	
26.	def swap_first_last(tup):	
	if len(tup) < 2:	
	<u>return tup</u>	
	new_tup = (tup[-1],) + tup[1:-1] + (tup [0],)	
	return new_tup	(2)
		(2)
	result = swap_first_last((1, 2, 3, 4))	
	print("Swapped <u>tuple:", result)</u>	
	(1/2 mark each for correcting 4 mistakes)	
27.	(I)	
	A) UNIQUE	
	OR	
	B) NOT NULL	
	(1 mark for correct answer)	(2)
	(11)	
	A) ALTER TABLE MOBILE DROP PRIMARY KEY;	
	OR B) ALTER TABLE MOBILE ADD PRIMARY KEY (M_ID);	
	(1 mark for correct answer)	
28.	A) Advantage: Network extension is easy.	
	Disadvantage: Failure of switch/hub results in failure of the network.	
	(1 mark for correct Advantage)	
	(1 mark for correct Disadvantage)	(2)
	OR	



B) SMTP: Simple Mail Transfer Protocol.

SMTP is used for sending e-mails from client to server.

(1 mark for correct expansion)

(1 mark for correct usage)

Q No.	SECTION C (3 X 3 = 9)	Marks
29.	(A)	
	def show():	
	f=open("Email.txt",'r')	
	data=f.read()	
	words=data.split()	
	for word in words:	
	if '@cmail' in word:	
	print(word,end=' ')	
	f.close()	
	(½ mark for correct function header)	
	($\frac{1}{2}$ mark for correctly opening the file)	
	($\frac{1}{2}$ mark for correctly reading from the file)	
	($\frac{1}{2}$ mark for splitting the text into words)	
	(1 mark for correctly displaying the desired words)	(3)
	OR	
	(B)	
	def display_long_words(): with open("Words.txt", 'r') as file:	
	data=file.read()	
	words=data.split()	
	for word in words:	
	if len(word)>5:	
	print(word,end=' ')	
	(¹ / ₂ mark for correct function header)	
	(½ mark for correctly opening the file)	
	($\frac{1}{2}$ mark for correctly reading from the file)	
	($\frac{1}{2}$ mark for splitting the text into words)	
	(1 mark for correctly displaying the desired words)	



```
(A)
30.
       (I)
         def push_book(BooksStack, new_book):
              BooksStack.append(new_book)
       (II)
          def pop_book(BooksStack):
             if not BooksStack:
               print("Underflow")
             else:
               return(BookStack.pop())
       (III)
          def peep(BooksStack):
             if not BooksStack:
               print("None")
             else:
               print(BookStack[-1])
       (3x1 mark for correct function body; No marks for any function header as it
       was a part of the question)
                                          OR
       (B)
      def push_even(N):
                                                                                     (3)
             EvenNumbers = []
             for num in N:
                 if num % 2 == 0:
                   EvenNumbers.append(num)
              return EvenNumbers
      VALUES = []
      for i in range(5):
         VALUES.append(int(input("Enter an integer: ")))
      EvenNumbers = push_even(VALUES)
      def pop_even():
            if not EvenNumbers:
               print("Underflow")
            else:
               print(EvenNumbers.pop())
      pop_even()
```





CBSE Board Exams SOLVED PAPERS

Click Here for Class-XII Papers



CLICK BELOW LINK FOR DETAILS

https://cbseportal.com/go/cbse-class-12-solved-papers

	def Disp_even(): if not EvenNumbers: print("None") else: print(EvenNumbers[-1]) Disp_even() (1/2 for identifying even numbers) (1/2 mark for correctly adding data to stack) (1/2 mark for correctly poping data on the stack and 1/2 mark for checking	
	condition) (1/2 mark for correctly displaying the data with none) (1/2 mark for function call statements)	
31.	(A) 15@ 7@ 9 OR (B) 1 #2 #3# 1 #2 #3 # 1 #	(3)
	1 # (1 mark for each correct line of output) (deduct ½ mark for not printing @/#)	

 32. (A) (I) select Product, sum(Quantity) from orders group by product having sum(Quantity)>=5; (II) select * from orders order by Price desc; (III) select distinct C_Name from orders; (IV) select sum(price) as total_price from orders where Quantity IS NULL; (4 x 1 mark for each correct query) OR (B) (I) C_Name Total_Quantity 	(4)





(11)	
O_Id C_Name Product Quantity Price	
1002 Mustafa Smartphone 2 10000 1003 Dhwani Headphone 1 1500	
(III) O_Id C_Name Product Quantity Price	
1001 Jitendra Laptop 1 12000 1002 Mustafa Smartphone 2 10000	
1002 Mustafa Smartphone 2 10000 1003 Dhwani Headphone 1 1500	
(IV)	
MAX(Price)	
12000	
(4 x 1 mark for each correct output)	
33. (I) def show():	
import csv	
f=open("happiness.csv",'r')	
records=csv.reader(f)	
next(records, None) #To skip the Header row	
for i in records:	
if int(i[1])>5000000:	
print(i)	
f.close()	
(1/2 mark for opening in the file in right mode)	
($\frac{1}{2}$ mark for correctly creating the reader object)	
(¹ / ₂ mark for correctly checking the condition)	(4)
($\frac{1}{2}$ mark for correctly displaying the records)	(4)
(II)	
def Count_records():	
import csv	
f=open("happiness.csv",'r')	
records=csv.reader(f)	
next(records, None) #To skip the Header row count=0	
for i in records:	
count+=1	
print(count)	
f.close()	



Download FREE CBSE E-BOOKS



		-
	(1/2 mark for opening in the file in right mode)	
	$(\frac{1}{2} \text{ mark for correctly creating the reader object})$	
	(½ mark for correct use of counter) (½ mark for correctly displaying the counter)	
	Note (for both parts (I) and (II)):	
	 (i) Ignore import csv as it may be considered the part of the complete program, and there is no need to import it in individual functions. 	
	(ii) Ignore next(records, None) as the file may or may not have the Header Row.	
34.	 Select * from FACULTY natural join COURSES where Salary<12000; Or 	
	Select * from FACULTY, COURSES where Salary<12000 and	
	 facuty.f_id=courses.f_id; (II) Select * from courses where fees between 20000 and 50000; 	
	(III) Update courses set fees=fees+500 where CName like	
	'%Computer%'; (IV)	
	(A) Select FName, LName from faculty natural join courses where	(4)
	Came="System Design"; Or	(4)
	Select FName, LName from faculty, courses where Came="System	
	Design" and facuty.f_id=courses.f_id;	
	OR	
	(B) Select * from FACULTY, COURSES;	
	(4x1 mark for each correct query)	
35.	def AddAndDisplay():	
	import mysql.connector as mycon	
	mydb=mycon.connect(host="localhost",user="root",	
	passwd="Pencil",database="ITEMDB")	
	mycur=mydb.cursor()	
	no=int(input("Enter Item Number: ")) nm=input("Enter Item Name: ")	
	pr=float(input("Enter price: "))	
	qty=int(input("Enter qty: "))	
	query="INSERT INTO stationery VALUES ({},'{}',{},{})"	(4)
	query=query.format(no,nm,pr,qty)	
	mycur.execute(query)	
	mydb.commit()	
	mycur.execute("select * from stationery where price>120")	
	for rec in mycur:	
	print(rec)	



(½ mark for correctly importing the connector object)
(½ mark for correctly creating the connection object)
(½ mark for correctly creating the cursor object)
(½ mark for correctly inputting the data)
(½ mark for correct creation of first query)
(½ mark for correctly executing the first query with commit)
(½ mark for correctly executing the second query)
(½ mark for correctly displaying the data)

Q No.	SECTION E (2 X 5 = 10)	Marks
36.	(I) import pickle	(5)
	<pre>def input_candidates(): candidates = [] n = int(input("Enter the number of candidates you want to add: ")) for i in range(n): candidate_id = int(input("Enter Candidate ID: ")) candidate_name = input("Enter Candidate Name: ") designation = input("Enter Designation: ") experience = float(input("Enter Experience (in years): ")) candidates.append([candidate_id, candidate_name, designation, experience]) return candidates candidates_list = input_candidates() def append_candidate_data(candidates): with open('candidates.bin', 'ab') as file:</pre>	
	for candidate in candidates: pickle.dump(candidate, file) print("Candidate data appended successfully.")	
	append_candidate_data(candidates_list)	
	(II) import pickle	
	def update_senior_manager(): updated_candidates = [] try: with open('candidates.bin', 'rb') as file: while True: try:	
	candidate = pickle.load(file) if candidate[3] > 10: # If experience > 10 years candidate[2] = 'Senior Manager' updated_candidates.append(candidate) except EOFError:	



	break # End of file reached except FileNotFoundError: print("No candidate data found. Please add candidates first.") return	
	with open('candidates.bin', 'wb') as file: for candidate in updated_candidates: pickle.dump(candidate, file)	
	print("Candidates updated to Senior Manager where applicable.") update_senior_manager()	
	(11)	
	import pickle	
	def display_non_senior_managers():	
	try: with open('candidates.bin', 'rb') as file: while True:	
	try: candidate = pickle.load(file) if candidate[2] != 'Senior Manager': # Check if not Senior	
	Manager print(f"Candidate ID: {candidate[0]}") print(f"Candidate Name: {candidate[1]}") print(f"Designation: {candidate[2]}") print(f"Experience: {candidate[3]}") print(""") except EOFError: break # End of file reached except FileNotFoundError: print("No candidate data found. Please add candidates first.")	
	display_non_senior_managers()	
07	 (1/2 mark of import pickle) (1/2 mark for input) (1/2 mark for opening file in append mode and 1/2 mark for using dump) (1/2 mark for opening file in read mode and 1/2 mark for using load) (1 mark for checking the condition and updating the value) (1 mark for checking the condition and displaying data correctly) 	
37.	(I) ADMIN Block as it has maximum number of computers.(1 mark for correct answer)	(5)
	(II) Switch (1 mark for correct answer)	
	(11)	





CBSE Board Exams SOLVED PAPERS

Click Here for Class-XII Papers



CLICK BELOW LINK FOR DETAILS

https://cbseportal.com/go/cbse-class-12-solved-papers



