SET	2

INDIAN SCHOOL MUSCAT FIRST PRE BOARD EXAMINATION 2023 COMPUTER SCIENCE(083)

CLASS: XII Max.Marks: 70

		MARKING SCHEME	
SET	QN.NO	VALUE POINTS	MARKS SPLIT UP
1. 2. 3. 4.		SECTION A	
	1.	True	1
	2.	(b) ALTER	1
	3.	(d) 11	1
	4.	(b) ['Comput', 'Science']	1
	5.	(b) Count (*)	1
	6.	(a) Optical Fibre Cable	1
	7.	(c)Book.update(Library)	1
	8.	(a) N#AI	1
	9.	(b) tup1[2] = 20	1
	10.	(b) Rose*Jasmine*Sunflower*	1
	11.	(d) FTP	1
	12.	(c) global y	1
	13.	True	1
	14.	(b) DISTINCT	1
	15.	(d) Gateway	1

16.	(c) f.seek(10,1)	1
17.	(a) Both A and R are true and R is the correct explanation for A	1
18.	(b) Both A and R are true and R is not the correct explanation for A	1
	SECTION B	
19.	(i) SMTP- SIMPLE MAIL TRANSFER PROTOCOL VoIP- VOICE OVER INTERNET PROTOCOL - ½ Mark each	2
	 (ii) HTML(Hyper text mark Up language) We use pre-defined tags Static web development language – only focuses on how data looks It use for only displaying data, cannot transport data Not case sensistive 	
	 XML (Extensible Markup Language) we can define our own tags and use them Dynamic web development language – as it is used for transporting and storing data Case sensitive Any Correct difference – 1 Mark 	
	OR	
	 (i) Advantage of star topology Ease of service Centralized control Easy to diagnose faults Disadvantage of star topology long cable length difficult to expand central node dependency -Any one advantage and disadvantage – ½ Mark each 	
	 (ii) Circuit switching physical connection is established between sender and receiver Each data unit knows the entire path from sender to receiver It does not follow store and forward concept - 1 Mark 	
20.	def_SumOfDigits(num): s=0 while num>0: d = num % 10 s=s+d num //=10 return s print(SumOfDigits(1234)) -½ Mark each correction	2

```
def VOWELS(STR):
21.
                                                                                  2
          c=0
          for i in STR:
             if i in "aeiouAEIOU":
               c+=1
          return c
                                        OR
        CITY={1:"Sydney",2:"Tokyo",3:"Pinkcity",4:"Beijing",5:"Suncity"}
        def countCity(CITY):
          for ct in CITY.values():
             if len(ct) > 7:
               print(ct.upper())
        countCity(CITY)
                                                             Input – ½ Mark
                                                       Correct Logic 1-Mark
                                                             Print – ½ Mark
22.
        ['C', 'C++', 'Python', 'FORTRAN']
                                                   – ½ Mark each value
                                                                                  2
          (i) LST1.insert(4,300)
23.
                                  -1Mark
                                                                                  2
          (ii) len(STR1)
                                  -1Mark
                                        OR
                            -1Mark
             import statistics
             print(statistics.median(Lstdata) -1Mark
24.
         (i) ALTER TABLE CAR ADD FUELTYPE VARVHAR(20).
                                                                                  2
         (ii) DESC CAR;
                                        OR
         (i) ALTER TABLE WORKER MODIFY NAME VARCHAR(20);
         (ii) DROP TABLE WORKER;
                                            -1Mark each
25.
        OUTPUT
                                                                                  2
        405#11#
                                             -1Mark each value
                                   SECTION C
26.
        OUTPUT
                                                                                  3
        G*L*TME
                                      - Correct output 3 Marks
27.
             (i)
                   DEPARTMENT COUNT(*)
                                                    - 1 Mark
                                                                                  3
                       ENT
                                     3
             (ii)
                     SUM(CHARGES)
                                                      - 1 Mark
                        1450
```

	(iii) PNO NAME - 1 Mark	
	P101 Kavita	
	P103 Sunil	
	P106 Varun	
28.	def DISPLAYLINES():	3
	file=open('Story.txt','r')	
	lines = file.readlines()	
	for w in lines: if w[0] !='S':	
	print(w)	
	file.close() (½ Mark for correctly opening and closing the file	
	2 Marks for correct logic 1/2 Mark for displaying the correct output)	
	72 Wank for displaying the correct output)	
	OR	
	<pre>def Count_Dwords(): count = 0</pre>	
	count = 0 file=open('Message.txt','r')	
	line = file.read()	
	word = line.split()	
	for w in word:	
	if w[-1].isdigit():	
	count+=1	
	print("Number of words ending with a digit are",count) file.close() (½ Mark for correctly opening and closing the file	
	2 Marks for correct logic	
	½ Mark for displaying the correct output)	
29.	(i) New degree – 4 and new cardinality- 2 -½ Mark each	3
	(ii) UPDATE GRADUATE set STIPEND=STIPEND+0.10*STIPEND	
	WHERE NAME LIKE '%N'; -1Mark	
	(iii)INSERT INTO GRADUATE VALUES(5,"SHYAM",700)	
	-1Mark	
20	(i) Push Cust(CList) – correct logic -1 ½ marks	3
30.	(i) Push_Cust(CList) – correct logic -1 ½ marks (ii) Pop_Cust() – correct logic -1 ½ marks	3
	(ii) Top_cust() correct logic 1 /2 intaks	
	SECTION D	
21	(i) GEV EGE BLANE BRIGE GOMBANIV ER OM VEEL (G	4
31.	(i) SELECT INAME,PRICE,COMPANY FROM ITEMS ORDER BY INAME DESC;	4
	CREEK BY HAME BESC,	
	(ii) SELECT INAME, PRICE FROM ITEMS WHERE PRICE	
	BETWEEN 10000 AND 20000;	
	(***) CELECTINAME THAME EDOM ITEMS TO A DEDS	
	(iii) . SELECT INAME, TNAME FROM ITEMS, TRADERS WHERE ITEMS.TCODE=TRADERS.TCODE;	
	WILEND ITEMS, I CODE-TRADERS, I CODE,	

	(iv) SELECT TCODE,COUNT(*) FROM ITEMS GROUP BY TCODE;	
32.	-1Mark each (i) addrec() – defines and call ½ mark for accepting data correctly ½ mark for opening and closing file 1 mark correct logic (ii) searchrec() - defines and call ½ mark for opening and closing file ½ mark for reader object 1 mark correct logic	4
	SECTION E	
33.	(i) Layout: (Bus Topology) MANGLORE OFFICE 90 m TRAINING 10 Total cable length = 165 m may be considered as cable length is short. 11 Mark for the correct layout 12 (ii) The most suitable place to house the server is the TRAINING building. In the TRAINING building we have the maximum number of computers installed (150 no's), so as per the 80 - 20 network design rule the server should be placed in that building where the network traffic is maximum localized which reduces the cabling cost and increases the efficiency. 1 Mark 1 Mark 1 Switch is to be installed in each building as it gives connectivity to all computers in the network with dedicated band width. 1 Mark 1 Mark 1 Mark 1 Mark 1 Mark 1 Mark	5

34.	(i) w+ (write and read)- File is created if does not exist. If file exists,	2+3=5
J -1 .		2+3-3
	new data will replace old data (old data is lost) i.e overwrites a+(append and read)- File is created if does not exist.	
	If file exist new data is added after old data of file.	
	- 1 Mark each	
	(ii) Opening and closing file – ½ Mark	
	Correct try and except block − ½ Mark	
	Correct loop and correct copying data – 1½ Marks	
	Correct return statement – ½ Mark	
	OR	
	(i) CSV file:	
	• Extension is .csv	
	Human readable	
	Stores data like a text file	
	Binary file:	
	• Extension is .dat	
	Not human readable	
	• Stores data in the form of 0s and 1s	
	Correct difference – 1 Mark each	
	(ii) (16 Mark for correctly opening and closing the file	
	(ii) (½ Mark for correctly opening and closing the file	
	3 Marks for correct logic	
	½ Mark for displaying the correct output)	
35.	(i) Equi- join:	1+4=5
	• The join in which columns from two tables are compared for	
	equality	
	Duplicate columns are shown -1 Mark	
	(ii) ½ mark for importing correct module	
	1 mark for correct connect()	
	½ mark for correctly accepting the input	
	1 ½ mark for correctly	
	½ mark for correctly using commit()	
	OR	
	(i) Primary key refers to a set of one or more attributes that can	
	uniquely identify tuples within the relation.	
	Foreign key- A non-key attribute, whose values are derived from the	
	primary key of some other table is known as foreign key in its current	
	table. - ½ Mark each	
	(ii) ½ mark for importing correct module	
	1 mark for correct connect()	
	1 mark for correctly executing the query	
	1/2 mark for correctly light tetchall()	
	½ mark for correctly using fetchall() 1 mark for correctly for displaying data	