INFORMATICS PRACTICES (065)
Annual Examination
Session: 2023-24
Class: XI
MARKING SCHEME

Time: 3 HOURS **M.M.: 70**

General Instructions:

Please check this question paper contains 35 questions.

- **The paper is divided into 4 Sections- A, B, C, D and E.**
- **Section A, consists of 18 questions (1 to 18). Each question carries 1 Mark.**
- **Section B, consists of 7 questions (19 to 25). Each question carries 2 Marks.**
- **Section C, consists of 5 questions (26 to 30). Each question carries 3 Marks.**
- **Section D, consists of 2 questions (31 to 32). Each question carries 4 Marks.**
- **Section E, consists of 3 questions (33 to 35). Each question carries 5 Marks.**
- **All programming questions are to be answered using Python Language only.**

SECTION A		
1	Data Recovery	1
2	(iii) TB>GB>MB>KB	1
3	(i) CU	1
4	(iv) Specific Purpose Software	1
5	(iii) Boolean	1
6	(ii) Only statement 2 is true	1
7	(iv) All of the mentioned	1
8	(iii) Drop table table_name;	1
9	(i) 3,20	1
10	False	1
11	(ii) DML	1
12	(i) 1 row	1
13	(i) 1 and 2	1
14	Cardinality=5, Degree=4	1
15	(iii) Infrastructure as a service	1
16	(iii) Machine Learning	1
Q17 and 18 are ASSERTION AND REASONING based questions. Mark the correct choice as : i. Both A and R are true and R is the correct explanation for A ii. Both A and R are true and R is not the correct explanation for A iii. A is true but R is False iv. A is false but R is true		
17	(i) Both A and R are true and R is the correct explanation for A	1
18	(iii) A is true but R is False	1
SECTION B		
19	a) Pen drive, Hard Disk (or any other relevant answer) b) Formatting data/Shredding Data **Or** a) Capacitor b) HB	1 1 1 1
20	True True 2 4	1 1

21	m,n=85, range(100) if m in n : print("Equal") print("May be")#Indentation else: print("Not Equal"):	½ ½ ½ ½
22	a) l[1:3] b) l.sum() (or any other relevant answer) **OR** a) 5 b) 3	1 1 1 1
23	a) Alter table empdrop gender; (½ mark to be awarded for writing drop) (½ mark to be awarded for removing the word column) b) Select name from student where name like"%an%"; (½ mark to be awarded for removing the word table) (½ mark to be awarded for writing like operator) **OR** a) RDBMS, Database, Table, Data b) MySql (or any other relevant answer)	1 1 1 1
24	a) Select Emp_Salary+1000 from employee; b) Alter table employee modify Emp_Namevarchar(50); **OR** All the attribute(s) of a table that have unique and Not Null values are eligible to become candidate keys, out of these keys one is selected as the Primary Key. For example: Student (roll , name , gender , age , address , class , section) There are two candidate keys in the above table Student:(roll, name) Out of which, roll is the most appropriate primary key. (or any other relevant answer)	1 1 1 1
25	a) Create database Company; b) Use Company;	1 1
	SECTION C	
26	a) num=30 n=10 while n<num: print("Hello Boss!") n=n+3 b) 7	 ½ 1 ½ 1
27	[0, 1, 3, 3, 4, 5] [0, 1, 3, 3, 4, 5, 4] [5, 4]	1 1 1

<table>
<tr><td>28</td><td>a)<u>No_Of_Trees*5</u>
15000
20000
25000
b) Select No_Of_Trees*5 from Trees where No_Of_Trees>=3000 and No_Of_Trees<=5000;
c) Update Trees set No_Of_Trees= No_Of_Trees*5 where No_Of_Trees between 3000 and 5000;

(or any other correct answer)
OR
a) Aadhar_No should serve as the primary key.
Reason: Mobile_No attribute has NULL value. Primary key should be unique and should not have Null values.

(or any other relevant answer)
(½ mark to be awarded for structure)
(½ mark to be awarded for the correct reason)

b) NULL</td><td>1

1

1

1
1

1</td></tr>
<tr><td>29</td><td>a) Show tables;
b) Create table HousingSocieties
(OwnerId Integer,
OwnerNameVarchar(50),
HouseNo Integer,
MaintenanceCharges decimal(8,2),
DateOfPurchase date);

(1 mark to be awarded for the correct syntax)
(1 mark to be awarded for choosing suitable data types)</td><td>1
2

</td></tr>
<tr><td>30</td><td>a) NLP
b) IOT
c) Blockchain</td><td>1
1
1</td></tr>
<tr><td colspan="3">SECTION D</td></tr>
<tr><td>31</td><td>a)
<table><tr><td>a) Compiler</td><td>iv) System Software</td></tr><tr><td>b) MS Office</td><td>iii) Application Software</td></tr><tr><td>c) Microphone</td><td>ii) Input Device</td></tr><tr><td>d) Plotter</td><td>i) Output Device</td></tr></table>
b)
<table><tr><th>Primary Memory</th><th>Secondary Memory</th></tr><tr><td>It can be both volatile and non volatile in nature.</td><td>It’s always Non-volatile in nature.</td></tr><tr><td>Primary memory is also known as Main memory or Internal memory</td><td>Secondary memory is also known as External memory or Auxiliary memory.</td></tr><tr><td>Examples: RAM, ROM, Cache memory, PROM, EPROM, Registers, etc.</td><td>Examples: Hard Disk, Floppy Disk, Magnetic Tapes, etc.</td></tr></table>
(or any other relevant answer)
(mention any two points)
(1 mark to be awarded for each point)</td><td>½
½
½
½

2</td></tr>
</table>

32	a) False
	15
	b) count=0
	Grade={1: 'A', 2: 'B', 3: 'A', 4: 'A', 5: 'C', 6:'D'}
	for x in Grade.values():
	if x=='A':
	count=count+1
	print(count)
	
	(or any other relevant code)
	(½ mark to be awarded for **count** variable initialization and printing)
	(½ mark to be awarded for writing **for** loop)
	(½ mark to awarded for writing correct **if** statement)
	(½mark to awarded for incrementing **count**)
		1
		1
		2

	SECTION E	
33	a) Select Voter_Id, Name_Of_Voter from Voter; b) Alter table Voter add Aadhar integer; c) Select * from Voter where City like "%Delhi"; d) Update Voter set Name_Of_Voter ='Aman Gupta' where Voter_Id='V3780'; e) Select DOB from Voter where income<30000; (or any other relevant answer)	1 1 1 1 1
34	a) <u>Start_Date</u> 2023-08-10 2023-08-17 b) <u>Days</u> 4 1 c) <u>Meeting_On</u> Anti Corruption Joint Health Finance d) <u>Distinct Venue</u> Chennai Kolkata Gandhinagar Bengaluru e) <u>End_Date</u> 2023-08-17 NULL **Or** a) i) decimal(5,2) ii) Insert into Marks values(1, 'Harish', 'XI', 85.25); iii) Alter table Marks drop percentage; iv) Integer values from (1,50) b) Delete from Marks; * and table are not part of the syntax (½ mark to be awarded for removing '*') (½ mark to be awarded for removing 'table') (or any other relevant answer)	1 1 1 1 1 1 1 1 1 1

35	a) del(d['tiger']) b)len(d) c) d['cat']='Pet Animal' d) d.keys() e) d['Goat']='Farm Animals' (or any other relevant command) **Or** a) Satellites.insert(0,'Chandrayaan') b) Satellites.index('Apple') c) Satellites.reverse() d) Satellites.pop() e) Satellites[3:6] (or any other relevant command)	1 1 1 1 1 1 1 1 1 1