



## INFORMATICS PRACTICES (065)

### SAMPLE PAPER - 3

Time: 03:00 Hrs

CLASS - XI

Maximum Marks: 70

#### General instructions:

- This question paper contains five sections, Section A to E.
- All questions are compulsory.
- Section A has 18 questions carrying 01 mark each.
- Section B has 07 Very Short Answer type questions carrying 02 marks each.
- Section C has 05 Short Answer type questions carrying 03 marks each.
- Section D has 02 questions carrying 04 marks each.
- Section E has 03 Long Answer type questions carrying 05 marks each
- All programming questions are to be answered using Python Language only.

SECTION - A		
1	The components of a computer are called hardware. (A) Physical (B) Logical (C) Application (D) None of these	1
2	The superimposition of computer generated perceptual information over the existing physical surroundings is called as ..... (A) Immersive Experiences (B) Virtual Reality (C) Augmented Reality. (D) Machine Learning.	1
3	..... refers to a logical structure of a computer describing how its components are connected to one another. (A) Functional system (B) Operational system (C) Computer organization (D) None of these	1
4	The full form of DDL is ..... (A) Distributed Data Language (B) Data Definition Language (C) Definition Database Language (D) None of these	1
5	For which attribute fixed length string is suitable? (A) Salary (B) City (C) Gender (D) Age	1



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**SAMPLE PAPERS**

**PYTHON MCQs**

<b>6</b>	Example of Artificial Intelligence is : (A) Google Now (B) Cortana (C) Alexa (D) All of these	<b>1</b>
<b>7</b>	Which of the following is used to define a block of code in Python language? (A) Indentation (B) Key (C) Brackets (D) All of these	<b>1</b>
<b>8</b>	MySQL is a/an ..... (A) Programming Language (B) Operating System (C) Database Management System (D) None of these	<b>1</b>
<b>9</b>	Which operator is used to compare a value with a specified list of values? (A) IN (B) LIKE (C) BETWEEN (D) ALL	<b>1</b>
<b>10</b>	List can contain values of these types: (A) Integers (B) Lists (C) Tuples (D) All of these	<b>1</b>
<b>11</b>	To remove duplicate rows from the results of an SQL SELECT statement, the ..... included. (A) UNIQUE (B) DISTINCT (C) ONLY (D) SINGLE	<b>1</b>
<b>12</b>	What will be the output of the following code : $2 * 3 * 2 + 625 ** 0.5 + 7 // 2$ (A) 542.50 (B) 540.0 (C) 539 (D) 541.0	<b>1</b>
<b>13</b>	The ..... providers can offer different kinds of computing infrastructure, such as servers, virtual machines (VM), storage and backup facility, network components, operating systems or any other hardware or software. (A) SaaS (B) PaaS (C) IaaS (D) Both (A) and (B).	<b>1</b>
<b>14</b>	Which of the following statements is correct regarding Alternate key : An Alternate key can be defined as: (A) An attribute which is a primary key (B) An attribute which is not a primary key (C) A candidate key (D) An attribute which is a foreign key	<b>1</b>



15	A Blue ray disc is an ..... (A) Input unit (B) Output unit (C) Memory unit (D) None of these	1
16	The Boot sector files of the system are stored in which computer memory? (A) RAM (B) Cache (C) ROM (D) Register	1
	Q17 and 18 are ASSERTION AND REASONING based questions. Mark the correct choice as (A) Both A and R are true and R is the correct explanation for A (B) Both A and R are true and R is not the correct explanation for A (C) A is True but R is False (D) A is false but R is True	
17	Assertion (A): Computer use a number of special memory units called registers, which are not considered as parts of the main memory. Reason (R): All these registers have the common ability to receive the information, hold it temporarily and to pass it on as directed by the control unit.	1
18	Assertion (A): Computers perform complex tasks with incredible speed and accuracy. Reason (R): The smallest unit of memory is called a bit.	1
	<b>Section-B</b> <b>Section B consists of 7 questions of 2 marks each.</b>	
19	Python is an open source. Explain?  <b>OR</b>  Differentiate int and float data types.	2
20	Rahul wrote a code in Python. But when he tried to run the code, he got some errors. Find out the error and help him.  percent = 98 print ("WOW!!!") print ("I am very happy to got", percent,"%") print ("How much did you get ?")	2
21	What is the original purpose of DBMS?	2



22 Find the output for x in range (12):  
 Pow1=2 \*\* x  
 print(Pow1) 2

23 What do you understand by SaaS? 2

24 How can the members of a list accessed in Python ? 2

25 What is the main difference between ' BETWEEN' and ' IN' operators? 2

### Section-C

Section C consists of 5 questions of 3 marks each.

26 Read the following data:  
**Table: ITEM** 3

Item_Code	Item_Name	Price
100	Refrigerator	9000
101	Television	8000
102	Computer	12000

Write the output of the following MySQL query (i) from the table ITEM

(i) Select \* from ITEM where Price > 8000 order by Item\_Name;

Write MySQL queries for the following (table name is ITEM)

(ii) Increase the price of the item Television by 10%

(iii) Add a new column DtMfg of type date to store the date of manufacture of the products.

**OR**

Consider the following table with their fields.

Employee(Ecode/ENAME,Desig,Salary,Doj)

(i) List the names, salary, PF, HRA, DA of all the employees in the Employee Table. HRA is 25% of salary, DA is 10% of salary and PF is 5% of salary. The result should be in descending order of ENAMES.

(ii) Using IN clause display details of employees whose designations are "Manager" or "Officer"

(iii) Modify the table to increase salary of all employees by 10%. [3]

27 What will be the output of the following code?  
 x,y = 4,6  
 z = x + y\*2  
 x = 2\*x + 3  
 y = x\*y + 2 3



	<pre>z = y*z + 10-x print ("x =", x) print ("y =", y) print ("z =", z)</pre>																															
28	Define LIKE operator of SQL with an example.	3																														
29	Define the generally used data types in SQL.  <b>OR</b> Write the situations where you will use the IN, BETWEEN and LIKE clauses.	3																														
30	Write a program to find the sum of all elements in a list.	3																														
<b>Section-D</b>																																
<b>Section D consists of 2 questions of 4 marks each.</b>																																
31	<p>Consider the following table Student and write command in SQL from (i) to (iv).</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Roll No</th> <th>Name</th> <th>Age</th> <th>Percentage</th> <th>City</th> </tr> </thead> <tbody> <tr> <td>2001</td> <td>Abhishek Singh</td> <td>20</td> <td>80</td> <td>Agra</td> </tr> <tr> <td>2002</td> <td>Amar Kumar</td> <td>19</td> <td>75</td> <td>Mathura</td> </tr> <tr> <td>2003</td> <td>Chetan Shukla</td> <td>21</td> <td>81</td> <td>Agra</td> </tr> <tr> <td>2004</td> <td>Deepak Nagar</td> <td>19</td> <td>70</td> <td>Agra</td> </tr> <tr> <td>2005</td> <td>Raghu Yadav</td> <td>19</td> <td>85</td> <td>Lucknow</td> </tr> </tbody> </table> <p>Write the output of the following MySQL queries (i) to (iv) from the table STUDENT</p> <p>(i) SELECT Name FROM Student WHERE City = 'Agra' AND Percentage &gt; 75;</p> <p>(ii) SELECT *FROM Student WHERE Name LIKE 'A%';</p> <p>(iii) SELECT Name FROM Student WHERE City NOT IN ('Lucknow');</p> <p>(iv) Select Name,Percentage from Student where age &gt;= 20;</p>	Roll No	Name	Age	Percentage	City	2001	Abhishek Singh	20	80	Agra	2002	Amar Kumar	19	75	Mathura	2003	Chetan Shukla	21	81	Agra	2004	Deepak Nagar	19	70	Agra	2005	Raghu Yadav	19	85	Lucknow	4
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32	<p>What will be the output of the following statements?</p> <p>(i) list1 = [12,32,65,26,80,10] list1.sort() print (list1)</p> <p>(ii) list1 = [12,32,65,26,80,10] sorted(list1)</p>	4																														

print (list1)

(iii) list1 = [1,2,3,4,5,6, 7,8,9,10]  
list1 [::- 2]  
list1 [: 3] + list1 [3:]

**OR (Option for (iii) only)**

What will be the output of the statement:

list1 = [1,2,3,4, 5]

list1 [len (list1) -1]

**Section-E**

**Section E consists of 3 questions of 5 marks each.**

**33** Write the SQL commands for the questions from (i) to (v) on the basis of table Employee.

**5**

Emp_no	E_name	Profile	Manager	Hire_date	Salary	Commission	Dept_no
8369	SMITH	CLERK	8902	1990-12-18	8000	NULL	20
8499	ANYA	SALESMAN	8698	1991-02-20	16000	300.00	30
8521	SETHI	SALESMAN	8698	1991-02-22	12500	500.00	30
8566	MAHADEVAN	MANAGER	8839	1991-04-02	29850	NULL	20
8654	MOMIN	SALESMAN	8698	1991-09-28	12500	1400.00	30
8698	BINA	MANAGER	8839	1991-05-01	28500	NULL	30
8882	SHIVANSH	MANAGER	8839	1991-06-09	24500	NULL	10
8888	SCOTT	ANALYST	8566	1991-12-09	30000	NULL	20
8839	AMIR	PRESIDENT	NULL	1991-11-18	50000	NULL	10
8844	KULDEEP	SALESMAN	8698	1991-09-08	15000	0.00	30

(i) Display Employee Name and Salary of those employees whose salary is greater than or equal to 22000?

(ii) Display details of employees those are not getting commission.

(iii) Display employee name and salary of those employees who have their salary in range of 2000 to 4000?

(iv) Display the name, profile and salary of employee(s) who doesn't have manager?

(v) Display the name of employee whose name contains "A" as fourth alphabet.

**OR**

Write SQL queries for the **table Software** given below :



Sid	Software name	Type	Cost	Reledate
S01	WhatsApp	Comm	0	2000-09-01
S02	Quckheal	Security	40000	2020-08-03
S03	Kaspersky	Security	25000	NULL
S04	VLCplayer	Audioplayer	10000	2011-08-03
S05	MySQL	Dbase	0	2020-02-02

- (i) Display all the records in descending order of cost
- (ii) Display structure of the table
- (iii) Display details of software released before 2020
- (iv) Add a new record "S06", "Python"/"Programming", 29000, NULL
- (v) Replace the cost by 20000 for software's whose cost is 0

**34 I) Match the following:** (2) **5**

- |               |                           |
|---------------|---------------------------|
| a) Compiler   | i) Output Device          |
| b) MS Office  | ii) Input Device          |
| c) Microphone | iii) Application Software |
| d) Plotter    | iv) System Software       |

**II) Give any three point differences between Primary and Secondary memory with exapmle.** (3)

**35** Write a program to find the largest and the second largest elements in a given list of elements. **5**

**OR**

Write a program to input your friend's names and their phone numbers and store them in the dictionary as the key value pair. Perform the following operations on the dictionary:

- (i) Display the name and phone number for all your friends.
- (ii) Add a new key value pair in this dictionary and display the modified dictionary.
- (iii) Delete a particular friend from the dictionary.
- (iv) Modify the phone number of an existing friend.
- (v) Check if a friend is present in the dictionary or not.
- (vi) Display the dictionary in sorted order of names.