



INFORMATICS PRACTICES (065)

SAMPLE PAPER - 2

Timen: 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 primary memory (also called main memory) of a personal computer consists of (A) RAM only (B) ROM only (C) both RAM and ROM (D) Cache memory	1
2	Robots that resemble humans are known as (A) Cyborg (B) Humanoids (C) Drone (D) None of the these	1
3	What is the full form of ROM? (A) Register Only Memory (B) Readable Only Memory (C) Read-Only Memory (D) Random Only Memory	1
4	The Alter command belongs to the category- (A) DDL (B) DML (C) TCL (D) DCL	1
5	The CHANGE clause of Alter command can be used to rename a column and a column. (A) Add (B) Modify (C) Delete (D) Reindex	1
6	What is the process of examining data sets in order to draw conclusions about the information they contain? (A) Data Entry (B) Database Management System	1



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SAMPLE PAPERS

PYTHON MCQs

	(C) Data Filter	(D) Data analytics	
7	Which of the following is not a core data type in Python programming? (A) Tuples (B) Lists (C) Class (D) Dictionary		1
8	The data type that does not required a size to be specified is: (A) float (B) varchar (C) char (D) date		1
9	The format for time in MySQL is: (A) MM:HH:SS (B) HH:MM:SS (C) SS:MM:HH (D) SS:DD:HH		1
10	What is the maximum possible length of an identifier? (A) 31 characters (B) 63 characters (C) 79 characters (D) None of these		1
11	A table "Electronics" has 12 attributes and 10 tuples, what will be the degree of table 'Electronics'. (A) 12 (B) 10 (C) 120 (D) 22		1
12	What will be the output of the following code : 82%7+ 12/7-16**0.5 (A) 2.71 (B) 2.51 (C) 3.91 (D) 14.5		1
13	A is an unmanned aircraft which can be remotely controlled or can fly autonomously through software-controlled flight plans in their embedded systems, working in conjunction with onboard sensors and GPS. (A) Drone (B) Cyborg (C) Humanoids (D) None of the these		1
14	If a table has 3 columns carrying NOT NULL and UNIQUE values, the maximum number of Candidate keys can be (A) 2 (B) 3 (C) 1 (D) 0		1



15	What do you call a program in execution? (A) Command (B) Process (C) Task (D) Instruction	1
16	Which of the following is not an operating system? (A) Windows (B) Linux (C) Oracle (D) DOS	1
<p>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</p>		
17	Assertion (A): Information technology is fast becoming a very important field of activity in India. Reason (R): Software is one of the major exports of India and further India has a very strong base in hardware. (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	1
18	Assertion (A): An operating system is the hardware component of the computer system. Reason (R): The operating system decides which process gets the processor, when and for how much time. (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	1
SECTION - B		
19	Out of the following find those identifiers, which can be used for naming variables or functions in a Python program: Days*Rent, For, A_price, Grand Total, do, 2 clients, Participant1, _Mycity <p style="text-align: center;">OR</p> What are literals? Name the types of literals.	2



20	Find the errors in following code: (i) marks = 90 print mark (ii) a = 20 b = a + 10 print a and b	2
21	Write few advantages of SQL.	2
22	Predict the output: x = 15 y = i z = 15 print (x = y) print (x > z) print (z < y)	2
23	Write different types of cloud computing.	2
24	Write a module to calculate and display the sum of all odd numbers in a list.	2
25	What do you mean by an operator? Name any four operators used in queries.	2

SECTION - C

26	Consider the table STUDENT given below and write answer for (i) and SQL commands for (ii) to (iii)	3
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Student_No	Class	Name	Game	G_Grade	Section	Marks
01	7	Rahul	Swimming	B	A	99
02	8	Sameer	Tennis	A	B	20
03	10	Dushyant	Football	C	C	87
04	12	Kapil	Tennis	D	C	90
05	6	Ravinder	Cricket	A	B	97

(i) What is the degree and cardinality of the table.
(ii) Display Student_No and G_Grade of all students from table STUDENT.
(iii) List the Name from table STUDENT whose Student_No is 04 or 05 or 02.

**OR**

- (i) Write a query to display Name and Section for those students whose Marks lies between 85 to 100
(ii) Display Game and Marks for those students whose name started with an alphabet 'D'.
(iii) Display details of "Cricket" and "Swimming" students from the table.

27	<p>What result will be produced after executing the following code:</p> <pre>list1 = ['Delhi', 'Meerut', 'Hapur', 'Agra'] list2 = list1 list3 = list1 [:] list2[1] 'Mumbai' list3[3] = 'Chandigarh' sum=0 for i in (list1, list2, list3): if i [1] == 'Mumbai': sum + = 5 if i [3] == 'Chandigarh': sum + = 10 print(sum)</pre>	3
28	<p>Differentiate between the following commands: (i) ALTER and UPDATE (ii) DELETE and DROP</p>	3
29	<p>What are the different categories of SQL commands. Write two example commands of each category.</p> <p style="text-align: center;">OR</p> <p>Write names of commands for the following: (A) To show all available database. (B) To add records to the table. (C) To create table in a database.</p>	3
30	<p>Write a program to calculate the average and total of 5 numbers in a list.</p>	3
SECTION - D		
31	<p>Write SQL queries for (i) to (iv) on the basis of table College-Students :</p>	4

Table : College-Students

No	Name	Fee	Gender	C_ID	JoinYear
11	Jeevan	30000	M	A01	2012
12	Rohit	25000	M	A02	2009
13	Ekant	30000	M	A02	2011
14	Arunava	30000	M	A03	2009
15	Geeta	40000	F	A02	NULL
16	Ekta	40000	F	A05	2010

(i) To display Name, Fee, Gender, Join Year about the College-Students, who have joined before 2010.

(ii) To display the names of College-Students, who are paying Fee more than 30000.

(iii) To display the names of all College-Students in ascending order of their joinyear.

(iv) To display the Name and Fee of Male college-students.

32 Consider the following list mylist. What will be the elements of mylist after each of the following operations?

mylist = [10,20,30,40]

(i) mylist.append [(50,60)]

(ii) mylist.extend ([80,90])

(iii) mylist.insert(2,45)

OR(Option for (iii) only)

What will be the output of the statement (Considering the original list): print(mylist[-1: :-1])

SECTION - E

33 Consider the table ABC given below, write commands in SQL for (i) to (v)

PID	Name	Gender	City	Pincode	Basic_Salary
1	Geet	F	Udhamwara	132141	50000
2	Surinder	M	Kupwara Nagar	193421	75000
3	Peter	M	Bhawani	434341	45000
4	Thomas	M	Ahmed Nagar	390021	50000
5	Garima	F	New Delhi	182141	35000
6	Simi	F	Udhamwara	110021	42000

(i) Display the number of Females from ABC table.

(ii) Display the PID, City and Pincode of ABC in descending order of Names.



- (iii) Display the name and city of all the males getting Basic Salary above 45000
- (iv) Display Name and Basic Salary of all the persons whose Name start with 'S'.
- (v) Display the details of those persons who live in New Delhi and are earning more than 30000.

OR

Write SQL queries for the table Spare given below :

Table: Spare

PartId	Pathname	Mfg	Mfgdate
P1	Mouse	Compaq	2011-03-09
P2	IC	HCL	2012-09-01
P3	Motherboard	Asus	NULL
P4	HDD	Asus	2020-09-01
P5	SMPS	Technet	2005-04-03

- (i) Create the table with suitable data types
- (ii) Display names of parts manufactured by "Asus"
- (iii) Display partnames and manufacturing dates of all spares
- (iv) Add a new column Cost float(8,2)
- (v) Add a new record "P6", "Keyboard", "Asus", "2012-09-03"

34 Draw the block diagram of a computer system. Briefly write about the functionality of each component.

5

35 Write a program to input total number of sections and class teacher's name in 11th class and display all information on the output screen.

5

OR

Write a code in python to input a list of numbers and find the cumulative sum of the elements.