Time : 3 Hours Maximum Marks : 70

Informatics Practices

CBSE Sample Question Papers

Self Assessment Paper

General Instructions

- (i) This question paper contains two parts A and B. Each part is compulsory.
- (ii) Both Part A and Part B have choices.
- (iii) Part A has 2 sections :
 - (a) Section I is short answer questions, to be answered in one word or one line.
 - (b) Section II has two case studies based questions. Each case study has 4 case-based sub parts. An examinee is to attempt any 4 part out of the 5 subparts.

(iv) Part B is Descriptive.

- (v) Part B has 3 sections.
 - (a) Section-I is short answer questions of 2 marks each in which two questions have internal options.
 - (b) Section-II is long answer question of 3 marks each in which two questions have internal options.
 - (c) Section-II is very long answer question of 3 marks each in which one questions has internal options.

Part-A (Section-I)

Attempt any 15	ques	stions from questions 1 to21		
1				
2. Find the secondary memory from the fo	ollow	ving.	1	
ROM, DVD, Magnetic Tape, RAM, Cache, Memory Card				
3. Interpreter is a type of software				
(a) Application software	(b)	System software		
(c) Device driver	(d)	Translator		
4. Read Only Memory is Memory.				
(a) Volatile	(b)	Non-volatile		
(c) Secondary	(d)	Registers	1	
5. Python is an open source programming	g lang	guage	1	
(a) Yes	(b)	No		
6. Predict the Output				
a = 2				
b = "String"* a				
print (b)			1	
7. Find the error				
a=5				
c = Ram * (a+1)				
print(c)				

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	a) Missing semicolon (b) Invalid operator
0	c) Undefined variables (d) Invalid identifiers
8.	Those operators which work on two operands are known as
9.	Write the output from the following code.
	x = 'abhi'
	y = 'Zoom'
	if $(x > y)$:
	print (x + y)
	else :
	print (y*2)
	(b) $abhiabhi$ (c) $abhiabhi$ (d) Zoomabhi 1
10.	Which statement is not true regarding dictionary?
	a) Dictionary keys are Immutable (b) Dictionary is called associative array.
	c) Dictionary values cannot be changed(d) Dictionary is an unordered collection. 1
11.	Which property of a relation is used to represent number of rows?
	a) Key (b) Attribute
10	c) Degree (d) Cardinality I
12.	The primary key of a relation can be said to be a super key.
15.	to
	a) Data Abstraction (b) Data Updating
	c) Data Storing (d) Data Concept 1
14.	In a
15.	Rows of relations are generally termed as tuples.
	a) True
16.	The full of DML is
	a) Distributed Meta Language (b) Data Manipulation Language (b) 1
17.	Which operator is used to match any value in the list of values in SOL?
18.	The query to select all details of an employee from Table Employee, whose age is from 25 to 35 using
	SQL logical operators.
19.	Robots that resemble humans are known as 1
20.	Which is not the example of Robotics?
	a) Sophia (b) Drone
	c) Media player (d) Welding Robot 1
21.	The term artificial intelligence was coined in the yeas
	(Section-II)
	Both the case study based questions (22 &23) are compulsory. Attempt any four sub parts from each question Each sub question carries 1 mark
22	Consider the following dictionary Opposite
	opposite={"Good": "Bad", "White": "Black", "Up": "Down", "Bight": "Wrong"}
	a) To print the opposite of 'Black' the code should be:
	(i) print (opposite.get("Black")) (ii) print(opposite["Black"])
	(iii) print(opposite[2][1]) (iv) None of these 1
	b) print (opposite.keys()) will print (i) dict keys(['Cood' 'White' 'Up' 'Bight'])
	(ii) dict values(['Bad', 'Black', 'Down', 'Wrong'])
	(iii) Error
	(iv) dict_keys(1,2,3,4) 1

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Sample Question Papers

(c) print (len (opposite)) will print

(1) 8	(11)	4	
(iii) 33	(iv)	10	1
(d) print ("W	'rong" in opposite), the output wi	ll be	
(i) True	(ii)	False	
(iii) Yes	(iv)	No	1

(iv) No

(e) The output of the segment will be

del opposite ["Good"]

print opposite

- (i) {'Good': Null, 'White': 'Black', 'Up': 'Down', 'Right': 'Wrong'}
- (ii) {Null: 'Bad', 'White': 'Black', 'Up': 'Down', 'Right': 'Wrong'}
- (iii) {'White': 'Black', 'Up': 'Down', 'Right': 'Wrong'}
- (iv) wrong statement

23. Write SQL queries for the questions that follow based on table Student where Stu_ID is primary key.

Stu_ID	Stu_Name	Subject	Marks (%)	Address
101	Rahul	Mathematics	80	Jain Nagar, Meerut
102	Neha	Science	85	LalKurti, Meerut
103	Vivek	Mathematics	90	Sastri Nagar, Delhi
104	Vipul	Commerce	82	Bagphat, Meerut
105	Priyanka	Science	91	Modipuram, Delhi
106	Ruchi	Commerce	75	Laxmi Nagar, Delhi

(a) SELECT Stu Name, Subject, Marks FROM Student ORDER BY Stu Name ASC;

(i) Will display student name, subject and their marks in increasing order

- (ii) Will display student name, subject and their marks in decreasing order
- (iii) Wrong command
- (iv) None

(b) To display the details of those students whose name is started from 'V'.

- (i) SELECT * FROM Student WHERE Stu Name LIKE 'V%';
- (ii) SELECT Stu ID, Stu Name, Subject, Marks, Address FROM Student WHERE Stu Name LIKE 'V%';
- (iii) Both i and ii.
- (iv) SELECT * FROM Student WHERE Stu Name IN 'V%';
- (c) To display student name, marks, address of those students whose marks greater than 75 but less than 90.
 - (i) SELECT Stu Name, Marks, Address FROM Student WHERE Marks > 75 and Marks < 90;
 - (ii) SELECT Stu Name, Marks, Address FROM Student WHERE Marks greater than 75 and less than 90;
 - (iii) Both i and ii
 - (iv) None of these
- (d) SELECT * FROM Student WHERE Subject NOT IN ('Commerce');
 - (i) will display the details of those students who opted the subject Commerce.
 - (ii) will display the details of those students who opted the subject other than Commerce.
 - (iii) Invalid Query
 - (iv) None of these
- (e) INSET INTO Student VALUES (103, "Ramesh", "Science", 60, "Indira Nagar, Lucknow";
 - (i) Insert the values into new row;
 - (ii) Update the entries of Stu ID 103;

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- (iii) Error will be generated
- (iv) None of these

Part B

(Section-I)

E24. What do you mean by computer? Write names of five input devices.	2
25. Differentiate between Dynamic RAM and Static RAM.	2
OR	
Write a short note on Python language?	
26. Predict the output of the following code	
x = 2	
y = 5	
z = x + 2 * 3	
x = y *2	
y = x + z	
print ("Python Program")	
print ("Value of x : ", x)	
print ("Value of y : ", y)	
print ("Value of z : ", z)	2
27. What is the error in following Python program with one statement?	
print ("My favourite subject is ", subject). Rectify this code.	2
28. Why does the expression (2 + 3)*4 result in the value 20 and not the value 14?	2
29. Define the term 'Candidate Key' and 'Alternate Key'.	2
What do you mean by Smart Cities?	
■ 30. What is the use of View in SQL?	2
31. What is the difference between DDL and DML?	2
1132. What is the use of DISTINCT statement in SQL?	2
33. Define 4 characteristics of Big data	2
(Section-II)	
All 34. What do you mean by Error? What is the difference between syntax error and logical error?	3
III 35. Write the following mathematical equation in Python expression	
(a) $3x^3 + 4x^2 + 5x + 7$	
(b) $y = ((a+b+c))/3$	
(c) $a = 1/2(a + b) \times h$ (d) $a = 4b^3 + 2b + 7$	
(d) $x = 4x^2 + 3x + 7$ (a) $x = (2 + bx^2)/(2 + b/2)$	3
(c) $\chi = (a + b \times 2) / (a - b / 2)$	5
What do you mean by List? How can you access the elements of a List?	
36 Define three models of DBMS	3
	5
Define LIKE operator of SOL with an example	
37. Write a program to calculate the average and total of 5 numbers in a list	3
	5
	_
38. Define system software and application software in detail.	5

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Sample Question Papers

39. Write a program to read a list of n integers (positive as well as negative). Create two new lists, one having all positive number and the other having all negative numbers from the given list. Print all three lists.5

OR

Worker_ID	Name	Salary	Joining_Date	Department
001	Monika	10000	2014-02-20	HR
002	Shiksha	8000	2014-06-11	Admin
003	Arun	30000	2014-02-20	HR
004	Nishant	15000	2014-02-20	Admin
005	Vivek	15000	2014-06-11	Admin
006	Santosh	20000	2014-01-20	Accountant
007	Naresh	7500	2014-04-11	Accountant

Write SQL query for the questions that follow based on given table Worker

(a) To display Name and joining date of workers whose salary is greater than 10000.

(b) To display details of those workers whose name started with 'N'.

- (c) To display all worker details from worker table order by Name ascending.
- (d) To display Name and Salary of those workers who works in 'HR' or 'Admin' Department.
- (e) To display the total number of workers who work in Accountant department.
- **40.** Consider the table ABC given bellow, write commands in SQL for (a) to (e)

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	М	Ahmed Nagar	390021	50000
5	Garima	F	New Delhi	182141	35000
6	Simi	F	Udhamwara	110021	42000

- (a) Display the number of Females from ABC table.
- (b) Display the PID, City and Pincode of ABC in descending order of Names.
- (c) Display the name and city of all the males getting Basic Salary above 45000.
- (d) Display Name and Basic Salary of all the persons whose Name start with 'S'.
- (e) Display the details of those persons who live in New Delhi and are earning more than 30000. 5



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