

## INDIAN SCHOOL AL WADI AL KABIR

Final Assessment 2023-24

## **SUB: Informatics Practices (065)**

Date:22/02/2024

Time Allowed:3 hours

Class: XI

Maximum Marks: 70

## General instructions:

- Please check that this question paper contains 35 questions.
- The paper is divided into 5 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				
Q	Question	Μ			
1	Which property of a relation is used to represent number of rows?				
	a. Key				
	b. Attribute				
	c. Degree				
	d. Cardinality				
2	Identify the correct command which will produce the output given below:	1			
	[0,-2,-4,-6,-8]				
	a. list(range(-2,-8,-2))				
	b. list(range(0,-8,-2))				
	c. list(range(-2,-10,-2))				
	d. list(range(0,-10,-2))				
3	Which of the following is true for variable names in Python?				
	(A) underscore and ampersand are the only two special characters allowed				
	(B) unlimited length				
	(C) Possible to start with a number				
	(D) none of the mentioned				
4	A condition or check applicable on a relation while its creation:	1			
	a) Constraint				
	b) Keyword				
	c) Clause				
	d) None of the above				
5	The key word eliminates duplicate rows from the result of a SELECT	1			
	statement				
	a. NULL				
	b. DISTINCT				
	c. DESC				
	d. UNIQUE				

6	Mr. Tejas is working on MySQL table named Student with the following table:	
	Field   Type   Null   Key   Default   Extra	
	cust_ID   int(11)   NO   PRI   NULL	
	cust_name   varchar(80)   YES     NULL       mobile no   int(11)   YES   NULL	
	car_booked   varchar(80)   YES     NULL	
	amount_paid   int(11)   YES     NULL       ++	
	5 rows in set (0.28 sec)	
	Which of the following command is used to get the above output:	
	a. Create	
	b. Describe	
	c. Show	
	d. Alter	
7	is a system that allows a group of connected computers to maintain a	
	single updated and secure ledger which is updated only after all the nodes in the network	
	authenticate the transaction.	
	a. DBMS	
	b. Client Server	
	c. Block chain	
0	d. Grid Computing	
8	Consider a table Student having two fields as mentioned below:	
	Name varchar(20)	
	City char(20)	
	If in a record, value stored in Name is 'Amogh' and City is 'Jharkhand', then Name and	
	City will consume and characters space respectively.	
	(i) 20,5	
	(i) = 20,3 (ii) = 5,20	
	(ii) 3,20 (iii) 20,4	
	(iii) 20, 1 (iv) 4,20	
9	A=11 3 Which operator should be used to get the value of c as 2	
	b. //	
	c. %	
	d. None of the mentioned	
10	Which of the following command is used to remove the rows from a table?	
	a. Delete	
	b. Drop	
	c. Remove	
	d. Truncate	
11	is a subsystem of Artificial Intelligence where computers have the	
	ability to learn from data using statistical techniques without being explicitly programmed	
	by a human being. a. Machine Learning	
	<ul><li>b. Natural Language Processing</li></ul>	
	c. Virtual Reality	
	d. Augmented Reality	
12	Evaluate the expression: 12+(3**3%4+3)-10/4	
	a. 16.5	
	b. 15.5	
	c. 16	

13	What will be the output of the following Python code?	1
	a={1:"A",2:"B",3:"C"}	
	$b = \{2:"D", 4:"E"\}$	
	a.update(b)	
	print(a)	
	a. {1: 'A', 2: 'B', 3: 'C', 2: 'D', 5: 'E'}	
	b. {1: 'A', 2: 'D', 3: 'C', 4: 'E'}	
	c. {1: 'A', 2: 'B', 3: 'C', 4: 'D', 5: 'E'}	
	d. {2: 'D', 4: 'E'}	
14	involves fetching data from storage devices for its processing.	1
	a. Data Storage	
	b. Data capturing	
	c. Data Retrieval	
	d. Data Deletion	
15	Which unit is used to measure computer memory?	1
	a. Hertz	
	b. Volt	
	c. Byte	
	d. Kilogram	
16	is an example/s of output device.	1
	a. Projector	
	b. Head phone	
	c. Printer	
	d. All the above	
17	Which SQL statement will not generate any error message?	1
	a. SELECT*FROM EMP WHERE NAME LIKE %A;	
	b. SELECT*FROM EMP WHERE SAL BETWEEN 3000 TO 15000;	
	c. SELECT*FROM EMP WHERE COMM IS NOT NULL;	
10	d. All of the above	1
18	Which of the following is not an example of System Software?	1
	a. Language Translator	
	b. Utility Software	
	c. Operating System	
	d. Word Processor SECTION – B	
10		-
19	Explain Primary Memory.	2
20	Predict the output based on the list, ITEM = $[86, 35, 72, 18, 2013]$	2
	a) print(len(ITEM))	
	b) print(ITEM * 2)	
	c) print(1007 in ITEM)	
0.1	d) print(ITEM[2:])	
21	Find errors in the following code fragment.(Rewrite the program underlining the	2
	correction)	
	x= int(input("Enter value of x:")	
	for in range [0,10]:	
	if x=y:	
	print(x + y)	
	else: print( x-y)	

22			•	ooks and their corresponding price, name and display its corresponding	2
23	n=5 s=0 for i in rang s=s+i print("Sum=	=",s) put of the following			2
24	ii. What is	tiate between Prima the purpose of WHI	ERE clause in N	MySQL.	2
25		mmand to create the	e table Candidat	te with the following constraint.	2
	Column name	Datatype(size)	Constraint		
	Cd_Id		Primary key		
	Cd_Name				
	Cd_Contact		Unique		
	Cd_Experience		Not Null		
	Cd_Qualification				
		SE	CCTION C		
26	Explain Big Data and	nd its characteristics	5		3
27	Mr. Amok created a Table: R No Name Stipend Subj 1 Sharon 400 Engi 2 Amal 680 Matt 3 Vedant 500 Acco 4 Shakeer 200 Infor 5 Anandha 400 Histo	A table RESULT in 1       esult       et     Average     Division       sh     38     THIRD       mematics     72     FIRST       nunts     67     FIRST       matics     55     SECOND		XAM.	3
	ii. Mr. Am the lette given cr iii. Mr. Am	ok seeks assistance r 'a' in it. Help Mr. iteria. ok realized that he	in displaying th Amok to filter e needed to add	Tirst row to the table 'RESULT'. the names of students containing out the names according to the d an additional column named how to accomplish this task.	
28	What is software? I	Explain its types.			
29	i. Ms. Ana	ika has created a da		n ago, but he is not sure whether	3
		base still exists or no			
	attempti	ng to create a table	in the 'Alumni'	g "No database selected" while database. Help her in selecting or with her task of entering alumni	

	iii. Ms. Anaika proceeded to create five tables within the 'Alumni' database. Subsequently, she determined that the table named 'Student' is unnecessary and help her in removing it from the 'Alumni' database.						
30	<ul> <li>i. Evaluate the expression. print(20-5%10&gt;10 and 7+8&lt;=15)</li> <li>ii. Differentiate between keyword and identifier.</li> <li>iii. Find the output. a,b,c=2,3,4 a,b,c=a*a,a*b,a*c print(a,b,c)</li> </ul>						
			SECTION D				
31	i.	Write a python pr input from the use	ogram to print multiplic	ation table of a nu	mber by getting	4	
	ii. Write a python program to check whether the number entered by the user is a perfect number or not.						
32	Consider t	he table COURSE				4	
	C_ID	C_Duration	C_name	C_Fees			
	C_01	2	Grid Computing	20000			
	C_02	3	System Design	40000			
	C_03	2	Artificial Intelligence	50000			
	C_04	1	Cyber Security	40000			
	C_05	3	Computer network	45000			
	i. ii. iii. iv.	Identify the most Write a command 'Course'.	e and cardinality of the t suitable column that car to remove the column ( to remove table 'Cours	be declared as pr C_Duration from	imary key. the table		
			SECTION E				
33	Consider the table 'Faculty'.						
	FACULTY         F_ID       Fname       Lname       Hire_date       Salary         102       Amit       Mishra       12-10-1998       12000         103       Nitin       Vyas       24-12-1994       8000         104       Rakshit       Soni       18-5-2001       14000         105       Rashmi       Malhotra       11-9-2004       11000         106       Sulekha       Srivastava       5-6-2006       10000         i.       Write SQL query to insert the first row of data to the table.       ii.         ii.       Write a MySQL query to delete the records having salary not more than 10000.         iii.       Write a MySQL query to display the details of those faculties who have joined before 11-11-2000 in the ascending order of their salaries.         Write the output of the following MySQL commands.       i.       Select Fname, Lname from faculty where F-ID =102 or F_ID=105;         ii.       Select * from Faculty where L       name like '%ra';						
34	i.	State the differen	ce between remove() and	1 non() in list		5	

	ii.	Write a	program to	o input the	amount from th	e user a	nd calcul	ate the				
		commiss		1								
	Α	mount		Commission								
	>20000			15 % of bill								
			00									
	15000 - 20000 10000- 14999.9		10 % of "									
			5% of "									
	<10000			0								
_												
35	Consider	the table '	Teacher_De	tails' given l	below and write s	uitable So	QL queries	s of the				
	following	:										
	Table: Teacher			cher_Details		-						
	T_ID	T_Name	T_DOJ	T_Subject	Num_of_Periods							
	1001	Bharti	2018-10-15	Hindi	27							
	1002	Pratima	NULL	NULL	32	-						
	1003	Savitri	2012-11-13	Hindi	29	4						
		Aashna	2020-02-24	English	28							
	1004	ridonnia	20 e									
	i)	10 L	the T Nam	e and Num	of Periods by i	ncreasing	g the num	nber of				
	780	Display		e and Num	_of_Periods by i	ncreasing	g the nun	nber of				
	i)	Display periods	each by 1.		·							
	780	Display periods Display	each by 1.		of_Periods by i							
	i) ii)	Display periods Display 2019.	each by 1. T_Name of	all those tea	chers whose date	of joinir	ng is after	1st Jan				
	i)	Display periods Display 2019. iii) Disp	each by 1. T_Name of lay T_ID and	all those tea d T_Name of	chers whose date	of joinin whose n	ng is after	1st Jan				
	i) ii) iii)	Display periods Display 2019. iii) Disp are in th	each by 1. T_Name of lay T_ID and e range of 25	all those tea d T_Name of 5 to 30. (both	chers whose date f all those teachers values included )	of joinir whose n	ng is after	1st Jan periods				
	i) ii) iii) iv)	Display periods Display 2019. iii) Disp are in th Display	each by 1. T_Name of lay T_ID and e range of 25 the details of	all those tea d T_Name of 5 to 30. (both f all those tea	chers whose date f all those teachers values included ) achers who have r	of joinin whose n ot assign	ng is after number of g	1st Jan periods oject.				
	i) ii) iii)	Display periods Display 2019. iii) Disp are in th Display	each by 1. T_Name of lay T_ID and e range of 25 the details of	all those tea d T_Name of 5 to 30. (both f all those tea	chers whose date f all those teachers values included )	of joinin whose n ot assign	ng is after number of g	1st Jan periods oject.				

All the Best