**INDIAN SCHOOL AL WADI AL KABIR**

Assessment-2 2023-24

**SUB: Informatics Practices (065)**

Date: 07/12/2023 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 |
| **Q.** | **SECTION –A** | **M** |
| 1 | \_\_\_\_\_\_\_\_\_\_ introduced the concept of stored program computer which was capableof storing data as well as program in the memory.a. John Von Neumannb. Herman Hollerithc. Charles Babbaged. None of the above | 1 |
| 2 | Identify the invalid Input device from the following: \_\_\_\_\_\_\_\_\_\_.a. Scannerb. Touch Screenc. Speakerd. Braille Keyboards | 1 |
| 3 | Which of the following statement is incorrect in the Computer Memory Concepts?a. Primary memory has limited storage capacity and is either volatile (RAM) or read only (ROM).b. RAM is faster than secondary storage and computer processor.c. To speed up the operations of the CPU, a very high-speed memory is placed betweenthe CPU and the primary memory known as cache.d. RAM is volatile and ROM is Non-volatile. | 1 |
| 4 | Operating system is an example ofa. General purpose application softwareb. Customized application softwarec. System softwared. Language processor | 1 |
| 5 | 4 bits make \_\_\_\_\_\_\_\_?a. One-byte c. One KBb. One nibble d. None of the above | 1 |
| 6 | Out of following which is an invalid Python datatype?a. if..elseb. Mappingc. Setd. None | 1 |
| 7 | Write the output of the following code:list(“welcome”)a. [‘w’, ‘e’, ‘l’, ‘c’, ‘o’, ‘m’, ‘e’]b. (‘w’, ‘e’, ‘l’, ‘c’, ‘o’, ‘m’, ‘e’)c. [‘welcome’]d. None of the above | 1 |
| 8 | Which of the following is used to delete an element from Dictionary?a. POP( )b. delc. removed. None of the above | 1 |
| **9** | Which is the valid identifier from the following?a. Student no c.\_price\_23b. @rate d.23classs | 1 |
| 10 | Which of the following is an invalid statement?a. a=b=c=20 c. abc=20 30 40 b. a,b,c=10,20,30 d. a\_b\_c=20 | 1 |
| 11 | Write the output of the following code:for i in range (10): if (i%2! =0): print("Hello",i)**a. Hello 1 b. Hello 1** **Hello 3 Hello 2** **Hello 5 Hello 3** **Hello 7 Hello 4** **Hello 9 Hello 5** **Hello 6** **Hello 7** **Hello 8** **Hello 9****c. Hello 2 d. Error** **Hello 4** **Hello 6** **Hello 8** | 1 |
| 12 | Write the output of the following code:>>>L= [1,2,3,4,5, [6,7,8]]>>>print (L [5]+[4,5,6])a. [6, 7, 8,4,5,6]b. 6, 7, 8,4,5,6c. Errord. 6 | 1 |
| 13 | Data type of “name” field in a table is char (25). How many bytes will be occupied by the value “Rohan Kumar”?a.25 c. 14b.11 d. 10 | 1 |
| 14 | Which out of following is DML command?a. CREATE c. INSERTb. ORDER BY d. ALTER | 1 |
| 15 | A table employee has 8 rows and 5 columns. Later on, 3 records are removed and 1 column got added to employee relation. What is the degree and cardinality of employee relation?a. 5 8 c. 5 6b. 8 5 d. 6 5 | 1 |
| 16 | The SQL keyword used with wildcards.a. NOT INb. LIKEc. INd. BETWEEN | 1 |
| 17 | A SQL command used to remove rows from a table. a. DELETEb. DROPc. REMOVEd. DISCARD | 1 |
| 18 | Kamal had created a table named stock. Later he forgot the name of the columns and the datatypes given. Which command will help him to know the above details?a. Show stock;b. Desc stock;c. Display stock;d. Select \* from stock; | 1 |
|  |  **SECTION – B** |  |
| 19 | Find output(s) of the following code fragment:List1 = [10, 30, 20, 40, 50, 30, 40, 10, 50, 20, 10, 50]print(List1.pop(3))print(List1.pop())print(List1.remove(10))print(List1.count(20) \* List1.count(30)) | 2 |
| 20 | Write the output of the following code fragment ifi) value of A=16 ii) value of A =48A = int (input (“Enter a Value?”))if (A % 6 == 0 and A % 8 == 0): Res = A \* 10else: Res = A \* 20print(“RESULT = “, Res) | 2 |
| 21 | Find output(s) of the following code fragment:D1 = {1 : 50, 2 : 75, 3 : 100, 4 : 150, 5 : 200}print(D1.items( ))print(4 in D1)print(100 in D1)D1.clear( )print(D1) | 2 |
| 22 | i) Write SQL query to create a database PRODUCT. ii) Considering there are tables created under product database, write a query to list all the tables under PRODUCT database. | 2 |
| 23 | Ms. Jameela a database developer created a table SHIPMENT (shipid, shipment\_name, DOS) with shipment\_name as a primary key. Later on, she realizes that shipment\_name cannot be set as a primary key. So, help her to remove the primary key.After some time, she realized that she should keep shipid as a primary key. Help her to add a primary key. | 2 |
| 24 | Consider the following table TOURPACKAGE and answer the following:

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| PCODE  | TOURISTNAME  | AGENCY  | NOP  | TDATE  | PNAME | PAMT |
| P5  | RAGHAVENDRA  | VOYAGER  | 2  | 23-DEC-2019  | SIMLA | 12000 |
| P2  | HARDEP  | PRISTINE  | 4  | 12-JAN-2020 | MALAYSIA | 35000 |
| P5  | SHAZIA  | GO NOW  | 6  | 25-DEC-2019 | SIMLA | 12000 |
| P6  | LIZZA  | PRISTINE  | 2  | NULL  | SINGAPORE | 75450 |

i) SELECT TOURISTNAME FROM TOURPACKAGE ORDER BY PAMT;ii) SELECT TOURISTNAME, PAMT FROM TOURPACKAGE WHERE TDATE IS NULL; | 2 |
| 25 | Differentiate Primary Memory and Secondary Memory. | 2 |
|  |  **SECTION C** |  |
| 26 | Predict the output of the following code fragments:1. for K in range(55,60):

print(K)1. for J in range(10,20,2):

print(J, end=” ”)1. for I in range(3,8):

print(I, end=” \t”) | 3 |
| 27 | Consider the following MOVIE table and answer the SQL queries based on it.1. Retrieve movies information without mentioning their column names.
2. List business done by the movies showing only MovieID, MovieName and BusinessCost.
3. List the different categories of movies.
 | 3 |
| 28 | Find the output.1. D3 = {1 : 100, 2 : 150, 3 : 200}

 D4 = {4 : 250, 2 : 175, 5 : 400} print(D3.update(D4)) print(D3)1. >>> list1 =['Red','Green','Blue','Cyan', 'Magenta','Yellow','Black']

 >>> list1[0:6:2]1. Explain Repetition in list by giving an appropriate example.
 |  3 |
| 29 | Write a program to find out the sum of digits of a number N entered by the user. | 3 |
| 30 | Explain by giving an appropriate example:1. Application software
2. System software
 | 3 |
|  | **SECTION D** |  |
| 31 | Consider the table BANK

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Bank\_id | Cust\_name | Bank\_name | Amount | Transaction |
| 1 | Amit | State Bank | 20000 | 25 |
| 2 | Sunil | Union Bank | 25000 | 20 |
| 3 | Nidhi | Uco Bank | 18000 | 15 |
| 4 | Ashish | Union Bank | 10000 | 22 |
| 5 | Suman | State Bank | 18500 | 8 |

1. Write the MySQL query to increase the amount by 1000 for those who have amount more than 20000.
2. Write the MySQL query to delete the rows with Bank\_name as “Uco Bank”.

Write the output of the following Sql commands.1. Select \* from bank where Bank\_name=” State bank” and Cust\_name like “%i%”;
2. Select distinct (Bank\_name) from bank;
 | 4 |
| 32 | 1. Write any two difference between list and dictionary by giving an example.
2. WAP that asks the user to enter product names and prices for n items. Store all of them in a dictionary name D1 whose keys are product names and values are prices. And also write a code to search an item from the dictionary by taking product name from user.
 | 4 |
|  | **SECTION E** |  |
| 33 | i. Write command to create a table -VOTER with following structure.

|  |  |  |
| --- | --- | --- |
| **Field name** | **Data Type/Size** | **Constraints** |
| Vno | Integer(4) | Primary key |
| Vname | Varchar(30) |  |
| Age | Integer(3) | Not null |
| Address | Varchar(30) |  |
| Phone | Integer(15) | Unique |

ii. Insert the given data to the table VOTER:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Vno | Vname | Age | Address | Phone |
| 002 | Arun | 32 | 21A,Delhi | 789789789 |

iii. Add a column ‘emailid’ to the table VOTER.iv. Write a MySQL query to remove the VOTER table from the database. | 5 |
| 34 | 1. Write a program to check the number entered by the user is a positive even number or not by getting input from the user.
2. Write a program to input the basic salary of the employee and calculate the Allowance and total salary.

BasicSalary Allowance>20000 15 % of BasicSalary 15001- 2000 10% of BasicSalary10001- 15000 5 % of BasicSalary<=10000 0 Total salary=BasicSalary+Allowance | 5 |
| 35 | Consider the following table- NewStudentWrite commands in SQL for:1. To display the details of all those students who have PE as their optional subject.
2. To display name, stream and optional of all those students whose name starts with ‘S’.
3. To display name of all those students who have average in the range of 80 to 90.
4. To display the name of students in the alphabetical order.
5. To change average to 70 where average is null.
 | 5 |

***All the Best***