INDIAN SCHOOL SALALAH

FIRST TERM EXAMINATION – SEPTEMBER 2024

INFORMATICS PRACTICES (065)

Class: XI   **Date: 18/09/2024**

Time: 3 Hrs   **Maximum Marks: 70**

General Instructions:

1. The question paper will contain 35 questions, all of which will be compulsory.
2. It will be divided into 5 sections: A, B, C, D, and E.
3. Section A will have 18 questions, each carrying 01 mark.
4. Section B will consist of 07 Very Short Answer type questions, with each question carrying 02 marks.
5. Section C will include 05 Short Answer type questions, and each question will carry 03 marks.
6. Section D will comprise 02 questions, and each question will carry 04 marks.
7. Section E will have 03 Long Answer type questions, with each question carrying 05 marks.
8. All programming questions must be answered using the Python language exclusively.

	SECTION A	
1	Name the device used to do enter the textual data. a) Storage device b) Output device c) Input device d) Processing device	1
2	Which is the high-speed memory between CPU and Ram? a) Hard Disk b) ROM c) Cache d) SSD	1
3	1 PB = _____ a) 1024 EB b) 1024 ZB c) 1024 TB d) 1024 YB	1
4	Which of the following is a valid identifier? a) 21School b) school@123 c) school12# d) school_store	1
5	Write the output of the following code : list("OMAN") a) ['O', 'M', 'A', 'N'] b) ('O', 'M', 'A', 'N') c) ['OMAN'] d) None of the above	1
6	Evaluate the following expression : 86-3*4+6//2 a) 70	1

	b) 307 c) 77 d) 72	

7	Guess the output: i) 3**2 ii)16//4
	    a) 9 and 4
	    b) 6 and 4
	    c) 9 and 4.0
	    d) 6.0 and 4.0
		1

8	Which of the following is used to delete all the elements from Dictionary?
	    a) pop( )
	    b) clear()
	    c) get()
	    d) None of the above
		1

9	The _____ function arrange the elements of a list in an ascending or descending order.
	    a) reverse()
	    b) sort()
	    c) insert()
	    d) pop()
		1

10	Python supports _____ types of executive modes.
	    a) 1
	    b) 2
	    c) 3
	    d) 4
		1

11	Comments are _____statements in a program.
	    a) non- executable
	    b) executable
	    c) functional
	    d) operational
		1

12	_____ is a combination of values, variables, and operators.
	    a) Function
	    b) Operator
	    c) Expression
	    d) keyword
		1

13	SQL is case sensitive. True or False ?	1
14	SQL statements end with a _____	1

15	_____ is the command used to open a database.
	    a) Desc database
	    b) Use database
	    c) Show database
	    d) Open database
		1

16	Which data type in MYSQL is used to store textual data?
	    a) INT
	    b) DATE
	    c) VARCHAR
	    d) FLOAT
		1

17	DBMS stands for _____.	1

18	_____is the command used to remove a table when you don't need it anymore.	1
	a. Remove table	
	b. Delete table	
	c. Drop table	
	d. Clear table	
	SECTION B	
19	Name the memory which is placed between the CPU and the primary memory.	2
20	Which device support very fast data transfer speed as compared to earlier HDDs?	2
21	Write a Python program to calculate and display the sum of all numbers from 1 to 200, excluding those that are divisible by both 5 and 6. Or Rewrite the program using for loop 　　sum=0 　　i=1 　　while i<=10: 　　　　sum=sum+i 　　　　i+=1 　　print("sum=",sum)	2
22	Identify the data type will be used to represent the following data values ? 　a) Number of months in a year 　b) Resident of India or not	2

23	Table name: **student**	2

RollNumber	SName	SDateofBirth	GUID
1	Atharv Ahuja	2003-05-15	1001
2	Daizy Bhutia	2002-02-28	1002

　　i)　　Write the query to display the **SName** and **SDateofBirth** of student with roll number 2, from the given table.

24	Table name: **Employee**	2

EmpNumber	EmpName	EDateofBirth
1	Atharv Ahuja	1997-05-17
2	Daizy Bhutia	1990-02-25
3	Gaurvir	1993-07-20
4	Daribiya	1989-05-31
5	Sanya	1996-08-22
6	Shabbir	1997-09-13
7	Aaliya	1992-01-02

　　i)　　Write a query to display Empname and EDateofBirth of the employee with number 3.

　　ii)　　Write a query to display Empname and Name of employee whose date of birth is 1996-08-22.

25	Table name: **Employee**	2

EmpNumber	EmpName	Salary		EDeptId
001	Atharv Ahuja	60000		1
002	Daizy Bhutia	45000		1
003	Gurpreet	20000		2
004	Daribha	65000		3
005	Sanya	33000		4
006	Shabbir	13000		5
007	Aaliya	53000		5

i) Write a query to display Ename and Empnumber of all those employees who are earning salary between 20000 and 50000

ii) Write a query to select the records of employees whose EdeptID is 5 using the WHERE clause

SECTION C

26	Write down the type of memory needed to do the following:
	   a. To execute the program
	   b. To store the instructions which cannot be overwritten.
	   c. To store data permanently
		3

27	Write a Python program to check the given number is positive, negative or Zero.	3

28	Identify the output for the following list operations
	List1=['10', 'one', '20', 'two', '30', 'three']
	
	  a) print(List1[::-1])
	
	  b) print(List1[1:4:2])
	
	  c) print(List1[-6::1])
		3

29	myList = [10,20,30,40]
	  a) Add the element to an existing list(50)
	  b) Add the elements as a list to an existing list([80,90])
	  c) Write the code to reverse the order of elements in the given list.
		3

30	Write MySQL statements for the following:
	  a) To create a database named FOOD.
	  b) To create a table named Nutrients based on the following specification:
		3

Column Name	Data Type
Food_Item	Varchar(20)
Calorie	Integer

SECTION D

31	Write a program that asks the user to enter one's name and age. Print out a message addressed to the user that tells the user the year in which he/she will turn 100 years old.	4

32	Write the corresponding Python assignment statements:
	  a) Assign 10 to variable length and 20 to variable breadth.
	
	  b) Assign the average of values of variables length and breadth to a variable sum.
	
	  c) Assign the strings 'Mohandas', 'Karamchand', and 'Gandhi' to variables first, middle and last.
	
	  d) Assign the concatenated value of string variables first, middle and last to variable fullname. Make sure to incorporate blank spaces appropriately between different parts of names.
		4

		SECTION E	
33	i) Consider the following dictionary Capital: Capital = {"china":"Beijing", "Egypt":"Cairo","France":"Paris", "Ireland":"Dublin"} **Find the output of the following statements:** a) print(Capital.get("china")) b) print(Capital.keys()) c) print(Capital.values()) d) print(Capital.items()) e) print(len(Capital)) **(OR)** ii) Program to create a dictionary which stores names of employees and their salary		5

34	a) Table : **FLIGHT**		5

Field Name	Field Data Type and Size	Constraints
FCode	Char(5)	
Airlines	Varchar(15)	
Source	Varchar(25)	Unique
Destination	Varchar(25)	

i.   Create a table **Flight** with the following field(s) specifications:
ii.   Insert the following records in the above table **Flight**.
       i. ("WY483", "Oman Air", "Dubai", "Muscat")
iii. Write the sql command to make Fcode as primary key
iv. Add a new column Fare from the table Flight
v.   Remove the column Airlines

(OR)

b) Consider the following MOVIE database and answer the SQL queries based on it.

MovieID	MovieName	Category	ReleaseDate	ProductionCost	BusinessCost
001	Hindi_Movie	Musical	2018-04-23	124500	130000
002	Tamil_Movie	Action	2016-05-17	112000	118000
003	English_Movie	Horror	2017-08-06	245000	360000
004	Bengali_Movie	Adventure	2017-01-04	72000	100000
005	Telugu_Movie	Action	2019-02-07	100000	160000
006	Punjabi_Movie	Comedy	2014-05-19	30500	180000

i.   List showing only MovieID, MovieName and BusinessCost.
ii.   Display the entire table.
iii. List all movies with ProductionCost greater than 80,000 and less than 1,25,000 showing ID, Name and ProductionCost.
iv. List all movies which fall in the category of Comedy or Action.
v.   Add a new record in the given table with the following data (007,'Malayalam_Movie','Action',2018-08-08',125000,225000)

35	a) i. Write a program to find the factorial of a number using for loop. ii. Write a program which performs any 3 arithmetic operations **(OR)** b) Write a program to display the Fibonacci series of a given value using while loop.		5