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**INDIAN SCHOOL MUSCAT
HALF YEARLY EXAMINATION 2022
INFORMATION TECHNOLOGY- CODE:802**



CLASS : XII
DATE: 22-09-2022

TIME ALLOTTED : 3 HRS.
MAXIMUM MARKS: 60

GENERAL INSTRUCTIONS:

1. Please read the instructions carefully.
2. This Question Paper consists of questions in two sections – **Section A & Section B.**
3. Section A has Objective type questions(MCQ/Fill in the blanks/very short answer questions) whereas Section B contains Subjective type questions.
4. Out of the given 28 questions in **section A**, a candidate has to answer **23 questions** and out of 18 questions in **section B**, a candidate has to answer **14 questions** in the allotted (maximum) time of 3 hours.
5. All questions of a particular section must be attempted in the correct order.

I		SECTION - A: OBJECTIVE TYPE QUESTIONS	Marks
		<u>Answer only any 23 questions from question no's: 1 to 28</u>	
1.	_____ command is used to modify the value of attribute of one or more tuple in a table.		1
	i) Update ii) Modify iii) Alter iv) Create		
2.	Keyword used to display the structure of a table.		1
	i) Show ii) Desc iii) Select iv) Display		
3.	_____ constraint is used to restrict the values of an attribute within a range.		1
4.	_____ is not an aggregate function.		1
	i) Sum() ii) Count() iii) Read() iv) Avg()		
5.	_____ replaces zero or more number of random character, when used with Like keyword.		1
	i) _ ii) % iii) \$ iv) @		
6.	_____ command displays list of databases available on the current server.		1
	i) Show databases ii) Show tables iii) Create tables iv) Display table		

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7. Which SQL keyword is used to sort the result?
i) ORDER BY ii) SORT iii) ORDER iv) SORT BY 1
8. _____ command deletes the tuples from a Table :
i) Drop ii) Delete iii) Modify iv) None of the above 1
9. _____ is a collection of raw facts which have not been processed to reveal useful information. 1
10. _____ is the same information stored in more than one file which would result in wastage of space. 1
11. Who is responsible for authoring access, monitoring its use, providing technical support, acquiring software and hardware resources in a database?
i) DBA ii) End user iii) Application programmer iv) System Analyst 1
12. What do you mean by a tuple? 1
13. The total number of columns of a relation is called its _____.
i) Tuple ii) Domain iii) Attribute iv) Degree 1
14. What is the default order of sorting in ORDER BY clause?
i) DESC ii) ASC iii) Both iv) None of these 1
15. USE keyword in MYSQL is used to select a
i) Table ii) Column iii) Database iv) Row 1
16. Which keyword is used to delete a table from the database in MySQL?
i) Drop ii) Delete iii) Remove iv) Alter 1
17. On executing DELETE command, if you get an error “foreign key constraint”, what does it imply ?
i) Foreign key is not defined ii) Table is empty
iii) Connectivity issue iv) Data is present in the other table 1
18. Which of the following not an online shopping site?
i) india.gov.in ii) yebhi.com iii) myntra.com iv) snapdeal.com 1
19. _____ is the use of electronic i.e. information and communication technology (ICT) tools for governance by the government for the citizens. 1
20. What is a web based application? 1
21. Name the portal which is a one point source to access all Indian Government websites at all levels and from all sectors. 1
22. What are the two categories of web based online application? 1
23. Name one front end and one Back end application to create Web Applications. 1

24. Which of the following is **not** an example of E-Governance? 1
 i) To file property tax ii) To apply for renewal of passport
 iii) To start an online coding course for 3 months iv) To get voters ID card issued
25. Which of the following is an invalid variable name? 1
 i) my_name ii) 1stname iii) _firstname iv) FIRSTNAME
26. What do you mean by a compiler? 1
27. Name two applications where Java programming language is used. 1
28. How to you display the output in a Java program? 1

II

SECTION - B: SUBJECTIVE TYPE QUESTIONS

Answer only any 8 questions from question no's: 29 to 38

29. Explain the Create table and Insert command. 2
30. The following code has some error(s). Rewrite the correct code underlining all the corrections. Also categorize the loop as Entry / Exit Control Loop. 2

```
int k ;
k = 20 ;
do ;
k = k- 3;
System.out.displayln(k);
}while k >= 3
```
31. Explain any four advantages of using the DBMS approach. 2
32. Differentiate between = and == operator in JAVA. 2
33. What is the purpose of comments in a java program? How are comments displayed in Java? 2
34. Explain domain constraint with an example. 2
35. A company is making^a database of Employees having personal details and salary details. Personal details table have columns Empid, Name, Address, BloodGroup. Suggest Column names for Salary table with the data type for each column. 2
36. Write and explain any two advantages of an online reservation system for the consumers. 2
37. What do you mean by relation and cardinality? 2
38. What are the services of E-Governance? Name the first E-Governance site in India. 2

Answer only any 3 questions from question no's: 39 to 42

39. Predict the output of the following code; Also categorize the loop as Entry / Exit Control Loop. 3

```
int j = 1,s = 0;
```

```

while (j < 10)
{
    System.out.print(j+ "+");
    s = s + j ;
    j = j + 2 ;
}
System.out.println( "=" +s);

```

40. What are the different phases of a web application project? Explain any three.. 3
41. Aman wants to shop mobile online. Write detailed Steps/ procedure to be followed while shopping online. 3
42. i) Mention 2 limitations DBMS approach. 3
- ii) Vinod has given the following query from the table **Company** but he is unable to execute it successfully. Write the correct query after rectifying the error.

Select CName, Salary From Company Table Where CName = "A%" ;

Answer only any 3 questions from question no's: 43 to 46

43. Sumayya has created the following table named '**Painting**'. She wants to find the answer for the following questions from the table. Help her to get the correct answer from the table by writing the correct SQL statements. 4

ID	A_NAME	TITLE	PRICE	TYPE
111	KAVITA SWAMY	MAZE	20000	ABSTRACT
102	AMER HUSSAIN	MELANGE	35000	MODERN
113	SIMRA	BEAUTY	25000	NATURE
114	SINGH	GEO	15000	MODERN
115	A GHOSH	MIRAGE	56000	ABSTRACT
106	RUPANGI M	RIZWAAN	12000	ABSTRACT

- i) Display A_NAME(Artist Name) and TITLE of all Modern type paintings.
- ii) Display all the details of all the Paintings in descending order of TITLE.
- iii) Display the highest price of paintings in each type from table PAINTING.
- iv) Find the number of records whose PRICE is less than 30000 from the table PAINTING.
44. Write a program in Java which prints sum of even numbers from 50 to 10 using for loop. 4
45. Write a program in Java which finds greatest of three numbers 55, 60, 88. 4
46. Write a program in Java which prints all multiples of 7 below 50 till 1 using do... while loop. 4

******END OF THE QUESTION PAPER******



**INDIAN SCHOOL MUSCAT
HALF YEARLY EXAMINATION 2022
INFORMATION TECHNOLOGY- CODE:802**



CLASS : XII
DATE: 22-09-2022

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MAXIMUM MARKS: 60

GENERAL INSTRUCTIONS:

1. Please read the instructions carefully.
2. This Question Paper consists of questions in two sections – **Section A & Section B**.
3. Section A has Objective type questions(MCQ/Fill in the blanks/very short answer questions) whereas Section B contains Subjective type questions.
4. Out of the given 28 questions in **section A**, a candidate has to answer **23 questions** and out of 18 questions in **section B**, a candidate has to answer **14 questions** in the allotted (maximum) time of 3 hours.
5. All questions of a particular section must be attempted in the correct order.

I

SECTION - A: OBJECTIVE TYPE QUESTIONS

Marks

Answer only any 23 questions from question no's: 1 to 28

1. _____ command is used to change the structure of an already existing table. 1
i) Change ii) Update iii) Alter iv) Create
2. Keyword used to display the tables in a database. 1
i) Desc ii) Show iii) Select iv) Display
3. _____ integrity constraint is specified between two relations. 1
4. _____ is an aggregate function. 1
i) Sum() ii) Cal() iii) Read() iv) Disp()
5. _____ replaces exact number of random character, when used with Like keyword. 1
i) \$ ii) % iii) _ iv) @
6. _____ command creates a database in MySQL. 1
i) Show databases ii) Create database iii) Create tables iv) Create databases

7. Which SQL keyword is used to group the result?
i) GROUP ii) ARRANGE iii) GROUP BY iv) ARRANGE BY 1
8. _____ command deletes a table from a database.
i) Delete ii) Drop iii) Modify iv) None of the above 1
9. _____ simplifies the task of managing the data and extracting useful information out of it. 1
10. If a file is updated then all the files containing similar information must be updated else it would result in _____ of data. 1
11. Who plays a major role in the database design and all the technical, economic and feasibility aspects?
i) DBA ii) End user iii) Application programmer iv) System Analyst 1
12. What do you mean by an attribute? 1
13. The number of rows in a relation is called the _____ of the relation.
i) Tuple ii) Domain iii) Cardinality iv) Degree 1
14. Which of the following is used to uniquely identify a tuple in a relation?
i) Primary Key ii) Candidate key iii) Foreign key iv) None of these 1
15. _____ is the keyword in MYSQL used to select a database :
i) CREATE ii) USE iii) SHOW iv) DESC 1
16. Which operator performs pattern matching ?
i) BETWEEN operator ii) LIKE operator iii) EXISTS operator iv) None of the above 1
17. Which of the following is a DML command?
i) Create table ii) Alter iii) Select iv) Drop 1
18. Which of the following an online educational site?
i) india.gov.in ii) khanacademy.org iii) myntra.com iv) snapdeal.com 1
19. _____ is the first E-Governance site in India. 1
20. What is the advantage of a web based application? 1
21. Name the online portal of Indian Railway Catering and Tourism Corporation Limited. 1
22. Write any two advantages of online reservation for the service providers. 1
23. Name one front end and one Back end application to create Web Applications. 1
24. Which of the following is an example of E-Governance?
i) To file property tax ii) To do online shopping
iii) To start an online coding course for 3 months iv) To book online bus ticket 1

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INDIAN SCHOOL MUSCAT
HALF YEARLY EXAMINATION 2022
PAINTING
Subject Code: 049



CLASS : XII
DATE: 22.09.2022

TIME ALLOTTED : 2 HRS.
MAXIMUM MARKS: 30

GENERAL INSTRUCTIONS:

1. The question paper has 4 sections.
2. Section A & B are objective type carrying 1 mark each.
3. Section C is short answer type. There is an internal choice in one of the questions.
4. Section D is Long answer type.

SECTION A

I Multiple choice questions.

1 x 4

1. What is the other name for Rajasthani miniature paintings?
a) Rajput paintings b) Warli paintings c) Mewar paintings d) Miniature paintings
2. Which is the sub-school of the miniature-painting 'Chand Bibi playing Polo (Chaugan)' of the Deccani School that is included in your course of study.
a) Hyderabad b) Ahmadnagar c) Bijapur d) Golconda
3. What medium was used in the artworks of the Pahari school of miniature painting?
a) Oil colour b) Watercolour c) Acrylic colour d) Fabric colour
4. Who was the famous bird painter in the Mughal school of miniature paintings?
a) Miskin b) Ustad Mansoor c) Haji Madini d) Ustad Faquirullah Khan

II Fill in the blanks.

1 x 4

1. In the Mughal painting, 'Krishna Lifting the Mount Govardhana', the painter showed an emphasis on the Lord Krishna's _____ who is lifting the Mount Govardhana with his left hand and providing shelter to the Brij Vasis.
2. Revival of Vaishnavism and growth of bhakti cult contributed in _____ painting.
3. The theme of the painting 'Krishna with Gopis' has been selected from the _____ series.

4. The famous Rajasthani miniature painting _____ was painted by the artist Guman.

SECTION B

I Answer the following questions.

1 x 3

1. Identify the relevant painting of the Mughal school of miniature painting included in your course of study, comprising of the following features:
'Live depiction of birds or animals in the Mughal school of miniature Painting'.
2. The Government of India published a postage stamp with the Rajasthani miniature painting on May 5, 1973. What is the name of the painting included in your course of study?
3. Write the name of the Deccan school of miniature painting reflecting the human life value 'Teacher-student relationship'.

II Match the following:

1 x 4

- | | |
|---------------------|--------------------------------------|
| 1. Indian Monalisa | (a) Chand Bibi Playing Polo |
| 2. Manaku | (b) Krishna Lifting Mount Govardhana |
| 3. Virata-Rupa | (c) Radha Bani-Thani |
| 4. Sportsman spirit | (d) Krishna with Gopis |
| | (e) Krishna on Swing |

SECTION C

Answer to be written in 100 words each.

3 x 3

1. Write a short note about the Rajasthani miniature painting 'Maru Ragini'.
2. How far has the painter been successful in depicting the subject matter of the Deccani painting 'Chand Bibi Playing Polo (Chaugan)'?
3. Write the compositional arrangement of the Pahari miniature painting 'Nand, Yashoda and Krishna with Kinsmen going to Vrindavana'

OR

What are the main characteristics or features of the Pahari School of Miniature Painting?

SECTION D

Answer to be written in 200 words.

6

1. Appreciate **any one** of the Mughal miniature paintings included in your course of study based on its:
a) Title b) Name of the artist and sub-school c) Medium and technique
d) Subject matter e) Composition

****END OF THE QUESTION PAPER****

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**INDIAN SCHOOL MUSCAT
HALF YEARLY EXAMINATION 2022
INFORMATION TECHNOLOGY- CODE:802**



CLASS : XII
DATE: 22-09-2022

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SECTION - A: OBJECTIVE TYPE QUESTIONS		Marks
<u>Answer only any 23 questions from question no's: 1 to 28</u>		
1. _____ command is used to modify the value of attribute of one or more tuple in a table.		1
i) Update ii) Modify iii) Alter iv) Create		
2. Keyword used to display the structure of a table.		1
i) Show ii) Desc iii) Select iv) Display		
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20. What is a web based application? 1
21. Name the portal which is a one point source to access all Indian Government websites at all levels and from all sectors. 1
22. What are the two categories of web based online application? 1
23. Name one front end and one Back end application to create Web Applications. 1

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25. Which of the following is an invalid variable name? 1
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26. What do you mean by a compiler? 1
27. Name two applications where Java programming language is used. 1
28. How to you display the output in a Java program? 1

II

SECTION - B: SUBJECTIVE TYPE QUESTIONS
Answer only any 8 questions from question no's: 29 to 38

29. Explain the Create table and Insert command. 2
30. The following code has some error(s). Rewrite the correct code underlining all the corrections. Also categorize the loop as Entry / Exit Control Loop. 2

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32. Differentiate between = and == operator in JAVA. 2
33. What is the purpose of comments in a java program? How are comments displayed in Java? 2
34. Explain domain constraint with an example. 2
35. A company is making^a database of Employees having personal details and salary details. Personal details table have columns Empid, Name, Address, BloodGroup. Suggest Column names for Salary table with the data type for each column. 2
36. Write and explain any two advantages of an online reservation system for the consumers. 2
37. What do you mean by relation and cardinality? 2
38. What are the services of E-Governance? Name the first E-Governance site in India. 2

Answer only any 3 questions from question no's: 39 to 42

39. Predict the output of the following code; Also categorize the loop as Entry / Exit Control Loop. 3

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```

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40. What are the different phases of a web application project? Explain any three.. 3
41. Aman wants to shop mobile online. Write detailed Steps/ procedure to be followed while shopping online. 3
42. i) Mention 2 limitations DBMS approach. 3
- ii) Vinod has given the following query from the table **Company** but he is unable to execute it successfully. Write the correct query after rectifying the error.

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Answer only any 3 questions from question no's: 43 to 46

43. Sumayya has created the following table named '**Painting**'. She wants to find the answer for the following questions from the table. Help her to get the correct answer from the table by writing the correct SQL statements. 4

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113	SIMRA	BEAUTY	25000	NATURE
114	SINGH	GEO	15000	MODERN
115	A GHOSH	MIRAGE	56000	ABSTRACT
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- i) Display A_NAME(Artist Name) and TITLE of all Modern type paintings.
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44. Write a program in Java which prints sum of even numbers from 50 to 10 using for loop. 4
45. Write a program in Java which finds greatest of three numbers 55, 60, 88. 4
46. Write a program in Java which prints all multiples of 7 below 50 till 1 using do... while loop. 4

******END OF THE QUESTION PAPER******

8/19

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**INDIAN SCHOOL MUSCAT
HALF YEARLY EXAMINATION 2022
INFORMATION TECHNOLOGY- CODE:802**



CLASS : XII
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<u>Answer only any 23 questions from question no's: 1 to 28</u>		
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11. Who plays a major role in the database design and all the technical, economic and feasibility aspects?
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i) india.gov.in ii) khanacademy.org iii) myntra.com iv) snapdeal.com 1
19. _____ is the first E-Governance site in India. 1
20. What is the advantage of a web based application? 1
21. Name the online portal of Indian Railway Catering and Tourism Corporation Limited. 1
22. Write any two advantages of online reservation for the service providers. 1
23. Name one front end and one Back end application to create Web Applications. 1
24. Which of the following is an example of E-Governance?
i) To file property tax ii) To do online shopping
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INDIAN SCHOOL MUSCAT
HALF YEARLY EXAMINATION 2022
PAINTING
Subject Code: 049



CLASS : XII
DATE: 22.09.2022

TIME ALLOTTED : 2 HRS.
MAXIMUM MARKS: 30

GENERAL INSTRUCTIONS:

1. The question paper has 4 sections.
2. Section A & B are objective type carrying 1 mark each.
3. Section C is short answer type. There is an internal choice in one of the questions.
4. Section D is Long answer type.

SECTION A

I Multiple choice questions.

1 x 4

1. What is the other name for Rajasthani miniature paintings?
a) Rajput paintings b) Warli paintings c) Mewar paintings d) Miniature paintings
2. Which is the sub-school of the miniature-painting 'Chand Bibi playing Polo (Chaugan)' of the Deccani School that is included in your course of study.
a) Hyderabad b) Ahmadnagar c) Bijapur d) Golconda
3. What medium was used in the artworks of the Pahari school of miniature painting?
a) Oil colour b) Watercolour c) Acrylic colour d) Fabric colour
4. Who was the famous bird painter in the Mughal school of miniature paintings?
a) Miskin b) Ustad Mansoor c) Haji Madini d) Ustad Faquirullah Khan

II Fill in the blanks.

1 x 4

1. In the Mughal painting, 'Krishna Lifting the Mount Govardhana', the painter showed an emphasis on the Lord Krishna's _____ who is lifting the Mount Govardhana with his left hand and providing shelter to the Brij Vasis.
2. Revival of Vaishnavism and growth of bhakti cult contributed in _____ painting.
3. The theme of the painting 'Krishna with Gopis' has been selected from the _____ series.

4. The famous Rajasthani miniature painting _____ was painted by the artist Guman.

SECTION B

I Answer the following questions.

1 x 3

1. Identify the relevant painting of the Mughal school of miniature painting included in your course of study, comprising of the following features:
'Live depiction of birds or animals in the Mughal school of miniature Painting'.
2. The Government of India published a postage stamp with the Rajasthani miniature painting on May 5, 1973. What is the name of the painting included in your course of study?
3. Write the name of the Deccan school of miniature painting reflecting the human life value 'Teacher-student relationship'.

II Match the following:

1 x 4

- | | |
|---------------------|--------------------------------------|
| 1. Indian Monalisa | (a) Chand Bibi Playing Polo |
| 2. Manaku | (b) Krishna Lifting Mount Govardhana |
| 3. Virata-Rupa | (c) Radha Bani-Thani |
| 4. Sportsman spirit | (d) Krishna with Gopis |
| | (e) Krishna on Swing |

SECTION C

Answer to be written in 100 words each.

3 x 3

1. Write a short note about the Rajasthani miniature painting 'Maru Ragini'.
2. How far has the painter been successful in depicting the subject matter of the Deccani painting 'Chand Bibi Playing Polo (Chaugan)'?
3. Write the compositional arrangement of the Pahari miniature painting 'Nand, Yashoda and Krishna with Kinsmen going to Vrindavana'

OR

What are the main characteristics or features of the Pahari School of Miniature Painting?

SECTION D

Answer to be written in 200 words.

6

1. Appreciate **any one** of the Mughal miniature paintings included in your course of study based on its:
a) Title b) Name of the artist and sub-school c) Medium and technique
d) Subject matter e) Composition

****END OF THE QUESTION PAPER****

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**INDIAN SCHOOL MUSCAT
HALF YEARLY EXAMINATION 2022
INFORMATION TECHNOLOGY- CODE:802**



CLASS : XII
DATE: 22-09-2022

TIME ALLOTTED : 3 HRS.
MAXIMUM MARKS: 60

GENERAL INSTRUCTIONS:

1. Please read the instructions carefully.
2. This Question Paper consists of questions in two sections – **Section A & Section B.**
3. Section A has Objective type questions(MCQ/Fill in the blanks/very short answer questions) whereas Section B contains Subjective type questions.
4. Out of the given 28 questions in **section A**, a candidate has to answer **23 questions** and out of 18 questions in **section B**, a candidate has to answer **14 questions** in the allotted (maximum) time of 3 hours.
5. All questions of a particular section must be attempted in the correct order.

I	SECTION - A: OBJECTIVE TYPE QUESTIONS				Marks
	<u>Answer only any 23 questions from question no's: 1 to 28</u>				
1.	_____ command is used to modify the value of attribute of one or more tuple in a table.				1
	i) Update	ii) Modify	iii) Alter	iv) Create	
2.	Keyword used to display the structure of a table.				1
	i) Show	ii) Desc	iii) Select	iv) Display	
3.	_____ constraint is used to restrict the values of an attribute within a range.				1
4.	_____ is not an aggregate function.				1
	i) Sum()	ii) Count()	iii) Read()	iv) Avg()	
5.	_____ replaces zero or more number of random character, when used with Like keyword.				1
	i) _	ii) %	iii) \$	iv) @	
6.	_____ command displays list of databases available on the current server.				1
	i) Show databases	ii) Show tables	iii) Create tables	iv) Display table	

7. Which SQL keyword is used to sort the result?
i) ORDER BY ii) SORT iii) ORDER iv) SORT BY 1
8. _____ command deletes the tuples from a Table :
i) Drop ii) Delete iii) Modify iv) None of the above 1
9. _____ is a collection of raw facts which have not been processed to reveal useful information. 1
10. _____ is the same information stored in more than one file which would result in wastage of space. 1
11. Who is responsible for authoring access, monitoring its use, providing technical support, acquiring software and hardware resources in a database?
i) DBA ii) End user iii) Application programmer iv) System Analyst 1
12. What do you mean by a tuple? 1
13. The total number of columns of a relation is called its _____ ,
i) Tuple ii) Domain iii) Attribute iv) Degree 1
14. What is the default order of sorting in ORDER BY clause?
i) DESC ii)ASC iii) Both iv)None of these 1
15. USE keyword in MYSQL is used to select a
i) Table ii) Column iii) Database iv) Row 1
16. Which keyword is used to delete a table from the database in MySQL?
i) Drop ii) Delete iii) Remove iv) Alter 1
17. On executing DELETE command, if you get an error “foreign key constraint”, what does it imply ?
i) Foreign key is not defined ii) Table is empty
iii) Connectivity issue iv) Data is present in the other table 1
18. Which of the following not an online shopping site?
i) india.gov.in ii) yebhi.com iii) myntra.com iv) snapdeal.com 1
19. _____ is the use of electronic i.e. information and communication technology (ICT) tools for governance by the government for the citizens. 1
20. What is a web based application? 1
21. Name the portal which is a one point source to access all Indian Government websites at all levels and from all sectors. 1
22. What are the two categories of web based online application? 1
23. Name one front end and one Back end application to create Web Applications. 1

24. Which of the following is **not** an example of E-Governance? 1
 i) To file property tax ii) To apply for renewal of passport
 iii) To start an online coding course for 3 months iv) To get voters ID card issued
25. Which of the following is an invalid variable name? 1
 i) my_name ii) 1stname iii) _firstname iv) FIRSTNAME
26. What do you mean by a compiler? 1
27. Name two applications where Java programming language is used. 1
28. How to you display the output in a Java program? 1

II

SECTION - B: SUBJECTIVE TYPE QUESTIONS

Answer only any 8 questions from question no's: 29 to 38

29. Explain the Create table and Insert command. 2
30. The following code has some error(s). Rewrite the correct code underlining all the corrections. Also categorize the loop as Entry / Exit Control Loop. 2

```
int k ;
k = 20 ;
do ;
k = k- 3;
System.out.displayln(k);
}while k >= 3
```
31. Explain any four advantages of using the DBMS approach. 2
32. Differentiate between = and == operator in JAVA. 2
33. What is the purpose of comments in a java program? How are comments displayed in Java? 2
34. Explain domain constraint with an example. 2
35. A company is making^a database of Employees having personal details and salary details. Personal details table have columns Empid, Name, Address, BloodGroup. Suggest Column names for Salary table with the data type for each column. 2
36. Write and explain any two advantages of an online reservation system for the consumers. 2
37. What do you mean by relation and cardinality? 2
38. What are the services of E-Governance? Name the first E-Governance site in India. 2

Answer only any 3 questions from question no's: 39 to 42

39. Predict the output of the following code; Also categorize the loop as Entry / Exit Control Loop. 3

```
int j = 1,s = 0;
```

```

while (j < 10)
{
    System.out.print(j+ "+");
    s = s + j ;
    j = j + 2 ;
}
System.out.println( "=" +s);

```

40. What are the different phases of a web application project? Explain any three.. 3
41. Aman wants to shop mobile online. Write detailed Steps/ procedure to be followed while shopping online. 3
42. i) Mention 2 limitations DBMS approach. 3
- ii) Vinod has given the following query from the table **Company** but he is unable to execute it successfully. Write the correct query after rectifying the error.

Select CName, Salary From Company Table Where CName = "A%" ;

Answer only any 3 questions from question no's: 43 to 46

43. Sumayya has created the following table named '**Painting**'. She want to find the answer for the following questions from the table. Help her to get the correct answer from the table by writing the correct SQL statements. 4

ID	A_NAME	TITLE	PRICE	TYPE
111	KAVITA SWAMY	MAZE	20000	ABSTRACT
102	AMER HUSSAIN	MELANGE	35000	MODERN
113	SIMRA	BEAUTY	25000	NATURE
114	SINGH	GEO	15000	MODERN
115	A GHOSH	MIRAGE	56000	ABSTRACT
106	RUPANGI M	RIZWAAN	12000	ABSTRACT

- i) Display A_NAME(Artist Name) and TITLE of all Modern type paintings.
- ii) Display all the details of all the Paintings in descending order of TITLE.
- iii) Display the highest price of paintings in each type from table PAINTING.
- iv) Find the number of records whose PRICE is less than 30000 from the table PAINTING.
44. Write a program in Java which prints sum of even numbers from 50 to 10 using for loop. 4
45. Write a program in Java which finds greatest of three numbers 55, 60, 88. 4
46. Write a program in Java which prints all multiples of 7 below 50 till 1 using do... while loop. 4

******END OF THE QUESTION PAPER******

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5. All questions of a particular section must be attempted in the correct order.

I SECTION - A: OBJECTIVE TYPE QUESTIONS		Marks
<u>Answer only any 23 questions from question no's: 1 to 28</u>		
1. _____ command is used to change the structure of an already existing table.		1
i) Change ii) Update iii) Alter iv) Create		
2. Keyword used to display the tables in a database.		1
i) Desc ii) Show iii) Select iv) Display		
3. _____ integrity constraint is specified between two relations.		1
4. _____ is an aggregate function.		1
i) Sum() ii) Cal() iii) Read() iv) Disp()		
5. _____ replaces exact number of random character, when used with Like keyword.		1
i) \$ ii) % iii) _ iv) @		
6. _____ command creates a database in MySQL.		1
i) Show databases ii) Create database iii) Create tables iv) Create databases		

7. Which SQL keyword is used to group the result?
i) GROUP ii) ARRANGE iii) GROUP BY iv) ARRANGE BY 1
8. _____ command deletes a table from a database.
i) Delete ii) Drop iii) Modify iv) None of the above 1
9. _____ simplifies the task of managing the data and extracting useful information out of it. 1
10. If a file is updated then all the files containing similar information must be updated else it would result in _____ of data. 1
11. Who plays a major role in the database design and all the technical, economic and feasibility aspects?
i) DBA ii) End user iii) Application programmer iv) System Analyst 1
12. What do you mean by an attribute? 1
13. The number of rows in a relation is called the _____ of the relation.
i) Tuple ii) Domain iii) Cardinality iv) Degree 1
14. Which of the following is used to uniquely identify a tuple in a relation?
i) Primary Key ii) Candidate key iii) Foreign key iv) None of these 1
15. _____ is the keyword in MYSQL used to select a database.
i) CREATE ii) USE iii) SHOW iv) DESC 1
16. Which operator performs pattern matching ?
i) BETWEEN operator ii) LIKE operator iii) EXISTS operator iv) None of the above 1
17. Which of the following is a DML command?
i) Create table ii) Alter iii) Select iv) Drop 1
18. Which of the following an online educational site?
i) india.gov.in ii) khanacademy.org iii) myntra.com iv) snapdeal.com 1
19. _____ is the first E-Governance site in India. 1
20. What is the advantage of a web based application? 1
21. Name the online portal of Indian Railway Catering and Tourism Corporation Limited. 1
22. Write any two advantages of online reservation for the service providers. 1
23. Name one front end and one Back end application to create Web Applications. 1
24. Which of the following is an example of E-Governance?
i) To file property tax ii) To do online shopping
iii) To start an online coding course for 3 months iv) To book online bus ticket 1

25. Which of the following is a valid variable name? 1
 i) last_name ii) 2lastname iii) 12_lastname v) LAST NAME
26. What are the software's needed to execute a Java program? 1
27. What is the purpose of comments in a Java program? 1
28. What is the difference between System.out.println() and System.out.print()? 1

II

SECTION - B: SUBJECTIVE TYPE QUESTIONS Answer only any 8 questions from question no's: 29 to 38

29. Explain the working of DEFAULT constraint in MySQL with an example. 2
30. The following code has some error(s). Rewrite the correct code underlining all the corrections. Also categorize the loop as Entry / Exit Control Loop. 2

```
int i ;
For( i = 10 , i<=25 ; i++ )
{
  System.out.Println(i) ;
}
```
31. Differentiate between while and do...while loops in JAVA. 2
32. Explain any four operations that need to be performed on a database. 2
33. A school is making database of Library having books details and student details. Books details table have columns Bookid, Name, Auhtor, Publisher, Price, Copies. Suggest Column names for Student table with the data type for each column. 2
34. Write and explain any two benefits of online learning. 2
35. What do you mean by a tuple of a relation and domain of a column in a relation? 2
36. What are the key characteristics of a project? 2
37. What do you mean by a "Superkey" in RDBMS? 2
38. How is a java code executed? 2

Answer only any 3 questions from question no's: 39 to 42

39. Predict the output of the following code; Also categorize the loop as Entry / Exit Control Loop. 3

```
int j = 1 ;
while (j <5)
{ System.out.println(j+ " *5 =" +j * 5) ;
  j =j + 1 ;
}
```

40. What are the different phases of a web application project? Explain any three. 3
41. i) Mention two different types of users of DBMS. 3

ii) Akansh has given the following query from the table **Accounts** but he is unable to execute it successfully. Write the correct query after rectifying the error.

Select AName, Address From Accounts like where AName = "B%";

42. Sunil wants to shop shoes online. Write detailed Steps/ procedure to be followed while shopping online. 3

Answer only any 3 questions from question no's: 43 to 46

43. Sunil has created the following table named '**Trainer**'. He wants to find the answer for the following questions from the table. Help him to get the correct answer from the table by writing the correct SQL statements. 4

TID	TNAME	CITY	HIREDATE	SALARY
101	SUNAINA	MUMBAI	1998-10-15	90000
102	ANAMIKA	DELHI	1994-12-24	80000
103	DEEPTI	HANDIGARG	2001-12-21	82000
104	MEENAKSHI	DELHI	2002-12-25	78000
105	RICHA	MUMBAI	1996-01-12	95000
106	MANIPRABHA	CHENNAI	2001-12-12	69000

- i) Display the Trainer Name, City & Salary in descending order of their Hiredate.
- ii) Display the TNAME and CITY of trainer who joined the Institute in the month of December 2001.
- iii) Display number of Trainers from each city.
- iv) Display TID, TNAME for those trainers who does not belong to DELHI and MUMBAI.
44. Write a program in Java which prints squares of numbers from 1 to 10 using for loop. 4
45. Write a program in Java to check whether -23 is positive or negative or 0. 4
46. Write a program in Java which prints all multiples of 5 below 50 till 1 using do... while loop. 4

******END OF THE QUESTION PAPER******