Marking Scheme (2018-19) DATABASE MANAGEMENT APPLICATIONS (795) XII

Time Allowed: 2.5hours SECTION – A	Maximum marks: 50
Attempt any ten from the following 1. The number of attributes in a relation is called the a. Tuple b. Table c. Cardinality d. Degree	10 x 1=10 of a relation.
Ans Degree	
2. In order to restrict the values of an attribute within a ra. Checkb. NULLc. Defaultd. NOT NULL	ange,constraint to be used.
Ans Check	
3 command is used to eliminate dupli a. Update b. Unique c. Distinct d. No Duplicate	cate values of an attribute in the select query
Ans Distinct	
4 command is used to delete the structura. Drop Table b. Drop Database c. Delete Table d. Alter Table	ure of the table
Ans Drop Table	
5 is the use of electronic i.e. informa governance by the government for the citizens a. F Learning	tion and communication technology (ICT) tools for

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b. e Commerce
c. E-Governance
d. E payment
Ans E-Governance
6. E business offers advantages and opportunities, there are also risks and barriers. These include
(a) Violation of customer privacy
(b) Spikes causing websites to fail at peak times
(c) Internet hackers penetrating company security
d) All of the above
Ans: All of the above
7. Which segment do Flip Kart belong to ?
(i) B2B (Business to Business)
(ii) C2C (Consumer to Consumer)
(iii) C2B (Consumer to Business)
(iv) B2C (Business to Consumer)
Ans B2C (Business to Consumer)
8 translates the byte code into machine code and then executes it.
Ans: Java Virtual Machine (JVM)
9 is a method to convert the string into its integer equivalent.
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C. Extend d. Import	
Ans Extend	
12 method of a String class converts all of the characters in thi lower case a) e. Lcase() b)toLowerCase() c)oLcase() d) isLower()	s String to
Ans toLowerCase()	
(1)	Mark each for correct answer)
Very short Answer Questions	(5X2=10)
13. Sana has given the following query but she is unable to execute it successful after rectifying the error Select Name, Marks from student Table Where Name = "P%"	fully. Write the correct query (2)
Select Name, Marks from student Where Name like "P%" (1 Mark for each correction)	
14. Differentiate between DDL and DML. DDL is a language which is used to define structure and constraints of data DML is used to insert, modify and delete data in a database. DDL – Create table, Alter table, Drop table DML- Insert, Update Delete	(2)
(2 Marks for difference with example) 15. Name one front end and one Back end application to create Web Application tend Java NetBeans Back end MySQL (1 Mark for each Application)	ions (2)
16. List advantages of Work Integrated Learning with a suitable example. Ans Allows user to Integrate front end and back end Applications Example Database can be created in any RDBMS package and Front End c (2 Marks for correct explanation with valid example)	(2) an be created in Java NetBeans
17. (a) Categorize the following as e-Governance and e-Learning applications.i) On-line experiments in a virtual Chemistry lab of a college.ii) On-line application submission for change of address in the passport	

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iii) On-line bill payment of electricity Charges. iv) On-line tutorials on w3schools.com	
Ans e-Learning – I, iv e- Governance – ii, iii (1/2 Mark for each correct answer)	
 18. Describe any one social and economic impact of eCommerce. Ans The biggest positive social impact is easier and broader access to that product. Economic impact – It is reshaping the method of doing business (1 Mark each for any valid point) 	(2)
 19. Describe how Database management applications can be used in the Banking sector Database for the Customers (Saving/ Current) Loan/ Type of Loan (2 Marks for correct explanation) Short Answer Questions (5X3=15) 20. Explain main phases of Web Application Development. 	(2)
Ans Phases in a Web Application Project	(0)
Following are four main phases of development:	
1) Requirements Definition Phase	
2) Design Phase	
3) Implementation Phase	
4) Testing Phase	
Additionally, for all these phases there is a Planning and Monitoring phase	
(1 Mark for each correct name)	

21. Pragya has registered herself on www.swayam.gov.in for a free online course on elementary education. Mention any three advantages of eLearning. (3)

Ans Advantages

- 1. It provides freedom to the learner to learn at their convenient location, convenient time and at their own pace of learning.
- 2. There is no discrimination of age, caste, gender, background, or the qualification of the learner.
- 3. The tutorials may be enriched with audio and video information, which makes learning more enjoyable and attractive.

Also, tutorials and tests are available for almost all topics, sometimes in regional languages also.

(1 Mark for each advantage)

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22. Predict the output generated by the following code Categorize the loop as entry control or exit control (2+1)

```
int x = 10, b = 30;
while (x <= 40)
{
x += b;
b -= 2;
System.out.println(" " + x);
}
Ans: 40
68</pre>
```

Entry Control Loop

(2 Marks for output and 1 mark for identification)

23. Write a JAVA program to input a number. If the number is even then Display its square otherwise its cube.

Ans

int a, result;

a=Integer.parseInt(jTextField1.getText());

if(a%2==0)

result=a*a;

else if(a%2!=0)

result=a*a*a;

System.out.println(" " +result);

(1 Mark for correct declaration of variables 1 Mark for checking even/odd 1 Mark for calculating result)

24. What are exceptions in Java? Describe the keywords used for handling Exceptions in JAVA (3)
Ans An error situation that is unexpected in the program execution and causes it to terminate unexpectedly is called an exception.

Java provides the following keywords to handle an exception:

try - A try block surrounds the part of the code that can generate exception(s).

(3)

catch – The catch blocks follow a try block. A catch block contains the exception handler - specific code that is executed when the exception occurs. Multiple catch blocks following a try block can handle different types of exceptions.

(1 Mark for correct definition, 1 each for try and catch)

25. Explain User Interface with a suitable example

(3)

Ans User Interface is a design of an application with which user interacts or communicates with the program. It must be user friendly, easy to interact. For example

The following front-end interface can be designed.					
	LOGIN PAGE ADD A NEW USER ACCOUNT USERNAME PASSWORD Submit reset search				
	Online Bill Calculator GENERAL BILL SUBMIT BILL				
PA CO NA	SER NAME ASSWORD ONFIRM PASSWORD AME DDRESS				

(1 Mark for explanation, 2 marks for example)

26. Illustrate Work Integrated learning with reference to Education Sector

(3)

(5)

Ans: For storing information such as student details, marks and result.

For storing information about faculty and staff members.

For storing details about school/college such as infrastructure details, department and offered course details.

Any of the above mentioned points can be explained in detail with suitable front end interface.

(3 Marks for explanation with suitable example)

SECTION B Long Answer Questions (3X5=15)

27. Consider the following table **Doctor** and answer the following Queries in SQL

IDDepartmentOPD_DAYSDoctor_NameFeeH201ENTMWFAkaash Arora400H308OncologyTTSDharma Sharma600

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H907	Paediatrics	MWF	Sanjay Singh	500
H896	ENT	TTS	Praveen Sethi	400
H675	Gynecology	TTS	Kavita Sharma	450
H357	Haematology	MWF	Dinesh Chaudhry	600

I. To display the name of all Doctors who visit OPD on 'MWF'

Ans:

Select Doctor_Name from Doctor where OPD_DAYS = "MWF";

II. To display the all the details of Doctors whose Department ends with 'y'

Ans:

Select *

from Doctor

where Department Like '%y';

III. To count the Number of Doctors in ENT Department

Ans:

Select Count(*)

From Doctor

Where Department = 'ENT';

IV. To display names and the fee of doctors in the descending order of fee

Ans:

Select Doctor_Name, Fee

From Doctor

Order by Fee Desc;

V. To add a new column Phone No to a table Doctor

Ans:

Alter Table Doctor

Add Phone_No char(10);

(1 Mark each for correct query ½ Mark each for partially correct Query)

28. What is eGovernance? Write advantages of eGovernance.

(2+3)

Ans: E-Governance or electronic governance is the use of electronic i.e. information and communication technology (ICT) tools for governance by the government for the citizens

Advantages

E-governance empowers the citizens socially and economically, and enhances their lives by providing them with quality information and better services.

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Courtesy: CBSE

It enables citizens to access information directly, without paying any money to a middleman or a tout.

It ushers transparency in the system.

(2 Marks for correct definition, 3 Marks for any 3 Advantages)

29. Ananya is trying to Book online railway ticket. Mention two precautions she has to take while making online transaction; also write three advantages of online payment. (5)

Ans: Precautions

Use a strong password like mix case, use numbers and special characters. This decreases ability of automated attacks by trying different character combinations.

Be cautious not to leave passwords around and do not share them with friends. Never use names of near and dear ones as passwords.

Open site on authentic system

Delete History and cookies while working on public network.

Advantages

Doesn't have to stand in long queues.

No Bribes

Can make payment at own ease.

(2 Marks for any 2 precautions, 3 Marks for any 3 Advantages)

30. (i) Write a JAVA program (method) to develop an application to accept sales of a company for four quarters. Calculate the total yearly sale and display the same.

Ans:

```
float q1,q2,q3,q4,total;
q1=Float.parseFloat(jTextField1.getText());
q2=Float.parseFloat(jTextField2.getText());
q3=Float.parseFloat(jTextField3.getText());
q4=Float.parseFloat(jTextField4.getText());
total=q1+q2+q3+q4;
jTextField5.setText(Float.toString(total));
```

(1 Marks for variable declaration and getText()
1 Mark for Total
1 Mark for displaying the result)

(ii) Explain any two methods of String Class

Ans- String toLowerCase()

Converts all of the characters in this String to lower case String.toLowerCase ()

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(3+2)

String concat (String str)

Concatenate the specified string at the end of this string

(Any two String class functions)

(2 Marks for Any 2 Functions)

31. (i) Write a JAVA program (method) to develop an application in JAVA to calculate Marks in 5 subjects and show the percentage of Students.

Ans:

```
float m1,m2,m3,m4,m5,total,perc;
m1=Float.parseFloat(jTextField1.getText());
m2=Float.parseFloat(jTextField2.getText());
m3=Float.parseFloat(jTextField3.getText());
m4=Float.parseFloat(jTextField4.getText());
m5=Float.parseFloat(jTextField5.getText());
total=m1+m2+m3+m4+m5;
perc=(total/500)*100;
jTextField6.setText(Float.toString(perc));
```

(1 Marks for variable declaration and getText()
1 Mark for Total
1 Mark for Displaying the result)

(ii) Differentiate between Class and Object with a suitable example

Ans: A class is a physical or logical entity that has certain attributes.

A program is collection of objects that interact with other objects to solve a problem. Each object is an instance of a class.

Once the class is defined, we can create objects of the class and access its members. To create an object of a class we use the keyword new. We can create objects of the class Book in a Java class file of our package

(2 Marks for correct Difference with example)