ROLL		
NUMBER		

SET A



INDIAN SCHOOL MUSCAT HALF YEARLY EXAMINATION 2023 INFORMATION TECHNOLOGY (802) ANSWER KEY



CLASS: XII TIME ALLOTED: 3 HRS. DATE: 26.09,2023 MAXIMUM MARKS: 60

GENERAL INSTRUCTIONS: 1. Read the Questions carefully and write the answer. 2. All Ouestions of a Particular section must be attempted in the correct order. SECTION - A command displays all the tables in the current database. SHOW TABLES; 1 1. 2 1 Identify the error and rewrite the query: Select * from Item arrange by price; SELECT * FROM Item order by price; The command is used to view the structure and description of a table. DESC 3. Database can be removed by using command. 4. DROP 1 RDBMS packages are widely used as _____ (Front end / Back end) 5. **BACK END** 1 symbol replaces a single character while matching a pattern with LIKE key word. 6. 1 (under score) In MySQL constraint does not allow duplicate value and null value. (Primary 7. 1 key) Define Cardinality. Number of rows Define Referential Integrity. Referential integrity is a term used in database design to describe the relationship between two tables. It is important because it ensures that all data in a database remains consistent and up to date. It helps to prevent incorrect records from being added, deleted, or modified. Create Table is - command. DDL 10. 1 Write the command which is used to add a new record to the table. Insert 11. 1 What do you understand by the Term "Unique Key"? It Is used to identify the records 12. uniquely. No null value allowed. What is the use of ALTER command in MySQL? Used to change the structure of the table 13. 1 Define Cartesian Product. Simply matches all the rows of the first table with all the rows of 14. the second table data definition language 15. Full form of DDL is 1 if ((percentage > = 40)&& (percentage < 60)) 16. {System.out.println("PASSED with II Division");}

	Consider the above statement, && will check for both the conditions	
	to be: (a) True	
17.	Define Byte code. Bytecode in Java is a set of instructions for the Java Virtual Machine.	1
18.	Which if the following is not a Keyword in JAVA? Break, While, Display	1
19.	What do you mean by on line shopping? Give any one web site name. is a form of electronic commerce which allows consumers to directly buy goods or services from a seller over the Internet using a web 1/2 mark any one valid web site name ½ mark	1
20.	Write any two e-governance web site names. India.gov.in ,igod.gov.in goidirectory.nic.in or any valid web site	1
21.	Write any one benefits of online learning. Any one valid benefit – 1 mark	1
22.	Define Design Phase of the Web application. The focus if how the application is to be designed. This consists of (a) a map of the web application site (b) Database (Design the application database).	1
23.	What do you understand by the term "Front end". A front end is the graphical user interface of a computer that makes it easier to use. Answer any 2 out of 3 Questions	1
24.	Write a Java program to assign any week day number from the user and display the corresponding day name. (use switch case) Assign the day number and using proper syntax for printing the result 1+1	2
25.	Explain any two relational and Logical Operator of JAVA with an example. >,>=,<,>=,==,!= explanation with an example of any 2 1+1	2
26.	What is a method? What is the significance of main() method? A method is a group of statements written to perform specific task 1 mark Main is a special method every java application must have. When you run a program the statements in the main method are the first to be executed. 1 mark	2
	Answer any 2 out of 3 Questions	
27.	Define e-Governance and write any one advantage of e-Governance. e-governance, government services are made available to citizens through IT. 1 mark more efficiency, enhanced services to better serve citizens, better accessibility of public services, more transparency and accountability of government or any valid advantage 1 mark	2
28.	What are the precautions to be taken while performing Online Transactions? Any two valid precautions 1+1 =2 marks	2
29.	Define the term web application and give any one the benefits of online learning. A web application (web app) is an application program that is stored on a remote server and delivered over the internet through a browser interface. 1 mark Any one benefit 1 mark Any one valid benefit 1 mark	2
	Answer any 4 out of 5 Questions	
30.	What is the difference between DDL and DML? Explain with an example. DDL(Data Definition Language) in this category all the commands are based on table structure. (alter create drop) 1 mark	2

	DML(Data Manipulation Language) in this category all the commands are based on table values (select insert and delete) 1 mark					
31.						2
32.	Identify the error in Select name, markst Select * from emp	n the following questions student who where deptno IS	ere name LIKE "h null; 1 mark	ŕ		2
33.	a) Number of attrb) To avoid repet	ributes in a table is ition in the result	s called_ of a SELECT Quer	_ of a table. Colu y Clause	imns is used. Distinct	1+1=2
34.	a) State the role of a DBA (Database Administrator) A Database Administrator (DBA) is an individual or person responsible for controlling, maintaining, coordinating, and operating a database management system. Managing, securing, and taking care of the database systems is a prime responsibility. b) Write a Command to delete all the records from EMP table. Delete from emp;					1+1=2
		Answe	er any 2 out of 3 Q	uestions		
35.	Table: Employee Empno	Ename	Deptno	Sal	Comm	
	1234	Gargi	10	35000	Null	
	5423	Hari	20	40000	200	
	3123	Kathir	10	30000	100	
	7654	Jaya	30	25000	250	
	b) Write a Quis not yet f Select enar	tment number 10. ployee set sal=sal tery to list out all taked. me,sal from employery to display all a'.	e salary of all the en+10 where deptno= the employee name oyee where comm is the employee detail	10; 1 mark s and their salary w s null; 1 mark s whose name end	whose commission	1+1+1
36.					2	
37.	NICNET (1987) 1 mark a) Define Entry Level Loop 1 mark b) Write a JAVA code to print all the even numbers from 45 to 100(use for loop). int i; 1/2 for (i=45;i<=100;i++) 1/2 {				1 2	
	if(i%2==0) System.out) 1/2 t.println(i); ½				

	Answer any 3 out of 5 Questions	
38.	How Having Clause is different from Where Clause? Explain with an example. Having: used to specify the condition along with GROUP by 1 mark Select deptno,count(*) from emp group by deptno having count(*)>1; 1 mark (any valid example0 Where clause is used to specify the condition along with select, delete update commands `1 mark Select * from emp where deptno=10; 1 mark (any valid example)	4
39.	(a) What is the purpose of comments in Java Program? How are comments displayed in Java? Comments are used in code by programmers to document their programs- to provide explanatory notes to other people who read the code. (// - used to single line /* and */ used for multiline)1 +! (b) Define compiler. Why is it needed? Explanation 1 mark Use 1 mark	2 2
40.	Explain Entry Level loop with an example 2 mark Explain Exit level loop with an example.2 mark	2+2=4
41.	What is selection structure? What are the selection structures provided in java? Valid explanation of selection statement and explanation of if else and switch case 2+1+1	2+2
42.	What is the difference between ALTER and UPDATE command in mysql? Explain with an example. Alter is used to change the structure of the table Alter table emp add esal int(3) 1+1 (any valid example) Update is used to change the table values Update emp set sal=sal+100 (1+1) (any valid example) ****END OF THE QUESTION PAPER****	2+2

ROLL		
NUMBER		

SET B



INDIAN SCHOOL MUSCAT HALF YEARLY EXAMINATION 2023 INFORMATION TECHNOLOGY (802) ANSWER KEY



CLASS: XII TIME ALLOTED: 3 HRS. DATE: 26.09,2023 MAXIMUM MARKS: 60

GENERAL INSTRUCTIONS: 1. Read the Questions carefully and write the answer. 2. All Ouestions of a Particular section must be attempted in the correct order. **SECTION - A** symbol replaces a single character while matching a pattern with LIKE key word. (-1. UDER SCORE) In MySQL constraint does not allow duplicate value and null value. (Primary key) 2. Define Cardinality. (Number of rows in a table) 1 3. Define Referential Integrity. Referential integrity is a term used in database design to describe the relationship between two tables. It is important because it ensures that all data in a database remains consistent and up to date. It helps to prevent incorrect records from being added, deleted, or modified. Create Table is - command. DDL 5. 1 6. Write the command which is used to add a new record to the table. INSERT 1 What do you understand by the Term "Unique Key"? used to identify the records uniquely 7. 1 null values allowed. It can be used many time in the table. What is the use of ALTER command in MySQL? Change the structure of the table 1 8. Define Cartesian Product. Simply matches all the rows of the first table with all the rows of 9. 1 the second table. Full form of DDL is data definition language 1 10. command displays all the databases from MySQL. Show databases 11. 1 **Identify the error and rewrite the query:** 12 1 Select * from Item Where Price=Null select * from item where price is null; command is used to view the structure and description of a table. DESC The 13. 1 table Database can be removed by using command. DROP 14. 1 (Back end) RDBMS packages are widely used as 15. if ((percentage > = 40)&& (percentage < 60)) 16.

	(Crystom out maintle ("DACCED with H Division"))	
	{System.out.println("PASSED with II Division");} Consider the above statement, && will check for both the conditions	
	to be:	
	(a) True	
17.	Write any two e-governance web site names. India.gov.in ,igod.gov.in goidirectory.nic.in	1
	or any valid web site	
18.	Write any one benefits of online learning. Any one valid benefit – 1mark	1
19.	Define Design Phase of the Web application.	1
	The focus if how the application is to be designed. This consists of (a) a map of the web	
	application site (b) Database (Design the application database).	
20.	What do you understand by the term "Front end".	1
	A front end is the graphical user interface of a computer that makes it easier to use.	
21.	Define Byte code. Bytecode in Java is a set of instructions for the Java Virtual Machine.	1
22.	Which if the following is not a Keyword in JAVA?	1
	Break, While, Display	
23.	What do you mean by on line shopping? Give any one web site name. is a form of electronic	1
	commerce which allows consumers to directly buy goods or services from a seller over the	
	Internet using a web 1/2mark any one valid web site name ½ mark	
	Answer any 2 out of 3 Questions	
24.	What is a method? What is the significance of main() method?	2
	A method is a group of statements written to perform specific task 1 mark	
	Main is a special method every java application must have. When you run a program the	
	statements in the main method are the first to be executed. 1 mark	
25.	>,>=,<,>=,==,!= explanation with an example of any 2 1+1	2
26.	Write a Java program to assign any character from the user and display the corresponding	2
	character is VOWEL or Not. (use switch case)	
	Assign any character ½ mark use switch case and print the result 1½ marks	
	Answer any 2 out of 3 Questions	
27.	Define the term web application and give any one the benefits of online learning.	2
<i>-</i> / .	A web application (web app) is an application program that is stored on a remote server and	
	delivered over the internet through a browser interface. 1 mark	
	Any one benefit 1 mark	
20	Any one valid benefit 1 mark	
28.	Define e-Governance and write any one advantage of e-Governance. Definition 1 mark any	2
20	one advantage 1 mark	12
29.	What are the precautions to be taken while performing Online Transactions?	2
	Any two valid precautions 1+1 =2 marks	
	Answer any 4 out of 5 Questions	
30.	·	1+1=2
<i>3</i> 0.	a) Number of attributes in a table is called of a table. columnsb) To avoid repetition in the result of a SELECT Query Clause is used.	1-1-2
	· · · · · · · · · · · · · · · · · · ·	
	DISTINCT	
31.) State the role of a DBA (Database Administrator) A Database Administrator (DBA) is an	1+1=2
31.	individual or person responsible for controlling, maintaining, coordinating, and	1+1-2
	I individual of person responsible for controlling, maintaining, coordinating, and	

	,	Aı	nswer any 3 out o	f 5 Questions structures provide		
	THEFTET (1)			a = a :		_
	b) Name the first e-governance site in INDIA. NICNET (1987) 1 mark					
37.	a) What are the advantages of Online Reservation System? Explain any 2. Any two advantages 1+1 = 2 mark					2 1
	b) Write a JAVA code to print all the even numbers from 45 to 100(use for loop). Using for loop 1 mark Display the result with if condition 1 mark					2
36.	while				on a condition ex: for	1
	c) Write a Query to display all the employee details whose name starts with the character 'a'. Select ename from employee where ename like 'a%';					
	number i	s not yet fixed.	ployee where depti		ny whose Department	
	 a) Write a Query to increase the salary of all the employees by 40 those who are all from department number 10 and 30. Update employee set sal=sal_40 where deptno=10 or deptno=30; b) Write a Query to list out all the employee names and their salary whose Department 					1+1+1
	5423	Hari	30	25000	250	
	1234	Gargi	null	30000	100	
	7654	Jaya	20	40000	200	
	Empno 3123	Ename Kathir	Deptno 10	Sal 35000	200	
35.	Table: Employe		Dantes	Co1	Comm	
		Aı	nswer any 2 out o	f 3 Questions		
	values (select ir	sert and delete)	1 mark		ls are based on table	
	structure. (alter	± /		11.4		
J - T.				ll the commands a		
34.	Show tables; What is the diffe	erence hetween I	ODI and DMI 2 E	xplain with an exa	nnle	2
	Use employee;	1 3				
33.	•	,	table names from F	EMPLOYEE datab	ase.	2
	b) Delete * Delete from emp	1				
	Select na	me ,marks from	the student where			
32.	Identify the erro a) Select na		g query student table whe	re name="h%";		2
22	Delete from emp					
	the database systems is a prime responsibility. b) Write a Command to delete all the records from EMP table.					

	Valid explanation of selection statement and explanation of if else and switch case	
	2+1+1	
39.	What is the difference between ALTER and UPDATE command in mysql? Explain with an	2+2
	example.	
	Alter is used to change the structure of the table	
	Alter table emp add esal int(3) 1+1 (any valid example)	
	Update is used to change the table values	
	Update emp set sal=sal+100 (1 +1) (any valid example)	
40.	Explain Entry Level loop with an example 2 mark Explain Exit level loop with an example.2 mark	2+2=4
41.	How Having Clause is different from Where Clause? Explain with an example.	4
	Having: used to specify the condition along with GROUP by 1 mark	
	Select deptno,count(*) from emp group by deptno having count(*)>1; 1 mark (any valid	
	example0	
	Where clause is used to specify the condition along with select ,delete update commands ` 1 mark	
	Select * from emp where deptno=10; 1 mark (any valid example)	
42.	(a) What is the purpose of comments in Java Program? How are comments displayed in Java?	2
	Comments are used in code by programmers to document their programs- to provide	
	explanatory notes to other people who read the code.	2
	(// - used to single line /* and */ used for multiline)1 +!	
	(b) Define compiler. Why is it needed?	
	Explanation 1 mark	
	Use 1 mark	
	****END OF THE QUESTION PAPER****	