

<b>SET</b>	<b>B</b>
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**INDIAN SCHOOL MUSCAT  
HALF YEARLY EXAMINATION 2022  
INFORMATION TECHNOLOGY- 802**

CLASS: XII

Max.Marks: 60

MARKING SCHEME			
SET	QN.NO	VALUE POINTS	MARKS SPLIT UP
		<b>SECTION – A (OBJECTIVE TYPE)</b> <b>Answer any 23 questions from question no's: 1 to 28</b>	
B	1	iii) Alter	1
B	2	ii) Show	1
B	3	Referential	1
B	4	i) Sum()	1
B	5	iii) _	1
B	6	ii) Create database	1
B	7	iii) GROUP BY	1
B	8	ii) Drop	1
B	9	Database Management System or DBMS	1
B	10	inconsistency	1
B	11	iv) System Analyst	1
B	12	A column in a table is known as attribute.	1
B	13	iii) Cardinality	1
B	14	i) Primary Key	1
B	15	ii) USE	1
B	16	ii) LIKE operator	1

B	17	iii) Select	1
B	18	ii) khanacademy.org	1
B	19	NICNET	1
B	20	A web-based application provides the convenience of availability 24x7 from anywhere having an internet connection across the world.	1
B	21	<a href="https://www.irctc.co.in">https://www.irctc.co.in</a>	1
B	22	Any two advantages. <div style="text-align: right;">½ Marks each</div>	1
B	23	NetBeans – Front end, Back end – MySQL (Any one front end and back end application can be considered) <div style="text-align: right;">½ Marks each</div>	1
B	24	i) To file property tax	1
B	25	i) last_name	1
B	26	To write a Java program, you will need a Text Editor (for writing the code) and a Java compiler (for compiling the code into byte code).	1
B	27	Comments are used in code by programmers to <i>document</i> their programs to provide explanatory notes to other people who read the code.	1
B	28	System.out.println() goes to a newline after displaying output. System.out.print() stays in the same line after displaying output.	1
		<b>SECTION – B (SUB JECTIVE TYPE)</b> <b>Answer any 8 questions from question no's: 29 to 38</b>	
B	29	<b>DEFAULT</b> : If a user has not entered a value for an attribute, then default value specified while creating the table is used. CREATE TABLE TEACHER ( Teacher_ID INTEGER, First_Name VARCHAR(20) NOT NULL, Gender CHAR(1) ); <div style="text-align: right;">1 Mark each</div>	2
B	30	<b>for is an Entry controlled loop</b> Corrected code: <pre>for( i = 10 ; i&lt;=25 ; i++ ) {     System.out.println(i) ; }</pre> <div style="text-align: right;">4 Errors( ½ Mark each)</div>	2

B	31	<table><tr><td><b>while loop</b></td><td><b>do..while loop</b></td></tr><tr><td>Entry controlled loop – it tests for a condition prior to running a block of code</td><td>Exit control loop - it tests for a condition after running a block of code</td></tr><tr><td>while loop runs zero or more times. Body of loop may never be executed</td><td>do-while loop runs once or more times but at least once.</td></tr><tr><td>The variables in the test condition must be initialized prior to entering the loop structure.</td><td>It is not necessary to initialize the variables in the test condition prior to entering the loop structure.</td></tr></table> <p style="text-align: right;">Any 2 points each-½ Marks each</p>	<b>while loop</b>	<b>do..while loop</b>	Entry controlled loop – it tests for a condition prior to running a block of code	Exit control loop - it tests for a condition after running a block of code	while loop runs zero or more times. Body of loop may never be executed	do-while loop runs once or more times but at least once.	The variables in the test condition must be initialized prior to entering the loop structure.	It is not necessary to initialize the variables in the test condition prior to entering the loop structure.	2
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B	32	Defining the Database, Populating the Database, Manipulating the Database, Sharing the Database, Protecting the Database, Maintaining the Database. <p style="text-align: right;">Explanation of any four - ½ Mark each</p>	2								
B	33	Table Name: Student Stuid- integer(Primary key) Name - varchar of size 35 Std – integer Bookissued- varchar of size 35 Minimum 4 columns with relevancy with Books table. 4 Errors( ½ Mark each)	2								
B	34	Any two benefits of online learning. <p style="text-align: right;">1 Mark each</p>	2								
B	35	Each row in a relation is known as its tuple. The data types of values in a column is known as its domain. <p style="text-align: right;">1 Mark each)</p>	2								
B	36	A project has a beginning and an end. The extent of the project is defined. It has boundaries. A project requires finite resources that are required to complete the project. A project has a specific time frame. It has a definite beginning and end dates. A project is complete when its end objectives are achieved. The objective is specific and identifiable. <p style="text-align: right;">Four points- ½ Mark each</p>	2								
B	37	<b>Superkey</b> is a set of attributes in a relation, for which no two tuples in a relation state have the same combination of values. Every relation must have at least one superkey which is the combination of all attributes in a relation.	2								
B	38	A Java compiler instead of translating Java code to machine language code, translates it into Java <b>Bytecode</b> (a highly optimized set of instructions). When the bytecode (also called a Java class file) is to be run on a computer, a Java interpreter, called the <b>Java Virtual Machine (JVM)</b> , translates the bytecode into machine code and then executes it.	2								

		<b>SECTION – B (SUB JECTIVE TYPE)</b> <b>Answer any 3 questions from question no's: 39 to 42</b>	
B	39	$1 * 5 = 5$ $2 * 5 = 10$ $3 * 5 = 15$ $4 * 5 = 20$ while is an entry controlled loop	3
B	40	The process of development of web based applications is broadly categorized in four phases. 1) Requirements Definition Phase 2) Design Phase 3) Implementation Phase 4) Testing Phase (Explanation of any three) 1 Mark each	3
B	41	End user,DBA,System Analyst and Application programmer SELECT AName, Address From Accounts Where AName LIKE "B%";  Any two users explanation-2 Marks + 1 Mark for correct query.	3
B	42	Create New Account, An individual registration page opens, Read the instructions and fill the registration form. After filling the form, click the <Submit> button. Once your account has been created, now you can perform transactions from your account. Once you have created your account you can login to the site using your username and password. Add shoes in the online cart which , then go for the payment option select which mode of payment are you going to do(Debit card,Credit card,COD etc),Enter card details, get otp ,type otp and click ok.	3
		<b>SECTION – B (SUB JECTIVE TYPE)</b> <b>Answer only any 3 questions from question no's: 43 to 46</b>	
B	43	i) SELECT TNAME,CITY,SALARY FROM Trainer ORDER BY HIREDATE DESC ; ii) SELECT TNAME,CITY FROM Trainer WHERE HIREDATE BETWEEN "2001-12-01" AND "2001-12-31" ; iii) SELECT CITY,COUNT(*) FROM Trainer GROUP BY CITY ; iv) SELECT TID,TNAME FROM Trainer WHERE CITY NOT IN("DELHI","MUMBAI") ;	4
B	44	<pre>public static void main(String[] args) {     int i;     for( i = 1; i &lt;=10 ; i = i + 1 )     {         System.out.println(i+"*" +i+ "=" +i*i) ;     } }</pre>	4
B	45	<pre>public static void main(String[] args) {     int num1= -23;     if( num1&gt; 0)         System.out.println(num1+"is positive") ;     else if(num1&lt; 0)         System.out.println(num1+"is negative") ; }</pre>	4

		<pre> else     System.out.println(num1+"is zero") ; } </pre>	
B	46	<pre> public static void main(String[ ] args) {     int i;     i = 45;     do     {         System.out.println(+i) ;         i = i - 5 ;     } while( i &gt;= 1) ; } </pre>	4