

KENDRIYA VIDYALAYA PALAMPUR
3RD Pre-Board Examination
CLASS XII - INFORMATICS PRACTICES SESSION 2018-2019

MARKING SCHEME

1	(a)		Which transmission medium should be used to transfer data across two continents at very high speed?	2
		Ans	Satellite	
	(b)		Briefly explain URL with a suitable example.	2
		Ans	A URL ("Universal Resource Locator") is a complete web address used to find a particular web page. Example: http://kvsangathan.nic.in/EmploymentNotice.aspx	
	(c)		Arrange the following communication channels in ascending order of their data transmission rates. OPTICAL FIBER, ETHERNET CABLE, TELEPHONE CABLE, COAXIAL CABLE , SATELLITE .	1
		Ans	TELEPHONE CABLE , ETHERNET CABLE, COAXIAL CABLE, OPTICAL FIBER, SATELLITE.	
	(d)		Which of the following is not a characteristic of Open Source Software: (i) These are proprietary software (ii) Can be downloaded freely (iii) Source code is available for modification	1
		Ans	(i) These are proprietary software	
	(e)	(i)	Which of the following software(s) is/are open source: LINUX, MS WINDOWS 10, ADOBE PHOTOSHOP, MYSQL , PYTHON	1
		Ans	LINUX, MYSQL , PYTHON	
		(ii)	How can you increase the signal of a networks if it is going down ?	1
		Ans	By connecting Switch or Router.	
		(f)	Write any two differences between Hub and Switch.	2
		Ans	All information sent to the hub is then sent through each port to every device in the network. In case of switch all information sent through only one device in the network.	

		Hub is a passive device (without software) while switch is an active device (with software).	
2	(a)	How can you insert an image in a web page with height 300px and width 350px? The name of the image is school.jpg	1
	Ans	<code></code>	
	(b)	When do you use Check Box and Radio Button? Establish the relation between the use/application of Radio Button and Combo Box.	2
	Ans	When we want to select more than one option in a group we use Checkbox. When we want to select only one option in a group we use Radio Button. Radio Button use more space than Combo Box in an application.	
	(c)	What will be the output of the following code fragment? <pre>int num=123,m=0,sum=0; do { m = num % 10 ; sum = sum +m; num = num / 10 ; } while(num>0); System.out.println("Value of SUM is : " +sum);</pre>	1
	Ans	Value of SUM is : 6	
(d)	Create a HTML page with the following specifications . <ol style="list-style-type: none"> Title of the page is : "I am a KVIAN" The background color of the page will be: "BLUE". And Font face of the whole web page will be: "Bedrock". Pages should have one hyperlink to "SwachhBharat.html" with text written as "Swachh Bharat Abhiyan" A paragraph with the text "Simple Living High Thinking" should be displayed in the center of the page. 	2	
Ans	<code><HTML> <HEAD> <TITLE> I am a KVIAN </TITLE> </HEAD> <BODY BGCOLOR ="BLUE" FONT=" Bedrock"> Swachh Bharat Abhiyan <P ALIGN="CENTER"> Simple Living High Thinking </P> </BODY> </HTML></code>		

(e)		Write the use of toString() method with an example.	1
	Ans	The toString() method is used to convert an Integer value into String in Java Programming. Example int n=10; jTF.setText(Integer.toString(n));	
(f)		Find the error(s) if any in the following codes and rewrite the corrected codes with underline corrections. \\ This is a comment int m=10; integer n=0; for(; m+n <19;++n) System.out.show("Hello\n"); p=10;	2
	Ans	<u>// This is a comment</u> int m=10; <u>int n=0;</u> for(; m+n <19;++n) <u>System.out.println("Hello\n");</u> <u>int p=10;</u>	
(g)		Rewrite the following code segment using switch case statement int sal ; sal= Integer.parseInt(jTFSalary.getText()); if (sal ==10000) jTFOutput.setText("GROUP D"); else if(sal ==20000 sal ==30000) jTFOutput.setText("GROUP C"); else if (sal==40000) jTFOutput.setText("GROUP B"); else jTFOutput.setText("WRONG INPUT");	2
	Ans	int sal ; sal= Integer.parseInt(jTFSalary.getText()); switch(sal) { case 10000: jTFOutput.setText("GROUP D"); break; case 20000: case 30000: jTFOutput.setText("GROUP C"); break; case 40000: jTFOutput.setText("GROUP B"); break;	

		default: jTFOutput.setText("WRONG INPUT");		
3	(a)	What are the basic rules while writing XML?	1	
	Ans	All XML must have a root element. All tags must be closed. Tag names are case sensitive.		
	(b)	In a query what is the use of “_ _m” and “%y”?	2	
	Ans	“_ _m” is used to look into the table column having three characters and last character must be “m” . “%y” is used to look into the table column having any number of characters and last character must be “y”.		
	(c)	(i)	Differentiate ALTER and UPDATE SQL commands	1
	Ans	ALTER command is used to modify the structure of the table while UPDATE command is used to modify the data of the table.		
		(ii)	Differentiate GROUP BY and ORDER BY SQL clauses.	1
	Ans	GROUP BY clause is used to group together all the record satisfying GROUP BY clause condition. ORDER BY clause is used to display column data in ascending or descending order.		
	(d)	(i)	Differentiate COMMIT and ROLLBACK SQL commands	1
	Ans	A COMMIT is a database command used in transaction management to save all changes made to the transaction as final. ROLLBACK command is used to revert the changes on the transaction that are made only after the last COMMIT or ROLLBACK command		
		(ii)	Differentiate DROP and DELETE SQL commands.	1
	Ans	DROP command is used to remove a table or database form the memory. DELETE command is used to remove the records inside the table		
	(e)	Write the use of these constraints: NOT NULL , UNIQUE , CHECK , DEFAULT	2	
	Ans	NOT NULL – Ensure data must be filled in the column UNIQUE – Ensure data must be different in the column CHECK – It is used to limit the value range that can be placed in a column DEFAULT - This constraint is used to provide a default value for a column.		
(f)	Given the table ‘MEDALS’ with the following columns :	2		

			<table border="1"> <thead> <tr> <th>MCODE</th> <th>MTYPE</th> <th>TOTAL</th> </tr> </thead> <tbody> <tr> <td>G101</td> <td>GOLD</td> <td>15</td> </tr> <tr> <td>S101</td> <td>SILVER</td> <td>24</td> </tr> <tr> <td>B101</td> <td>BRONZE</td> <td>30</td> </tr> </tbody> </table> <p>Write the output of the following statements : (i) SELECT MAX(TOTAL) FROM MEDALS; (ii) Select COUNT(*) + 2 FROM MEDALS;</p>	MCODE	MTYPE	TOTAL	G101	GOLD	15	S101	SILVER	24	B101	BRONZE	30	
MCODE	MTYPE	TOTAL														
G101	GOLD	15														
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B101	BRONZE	30														
		Ans	(i) 30 (ii) 5													
4	(a)		<p>Identify the error(s) in the following code :</p> <pre> int x,n1=0,n2=0,n3=0; x = Integer.parseInt(jTextFieldInput.getText()); switch(x) { case 1 : n1 =10 ; n2 =20 ; break; case 2 : n3 =30 ; break; case 1 : n1 =40 ; Break; DEFAULT : n1=100; } </pre>	2												
		Ans	<pre> int x,n1=0,n2=0,n3=0; x = Integer.parseInt(jTextFieldInput.getText()); switch(x) { case 1 : n1 =10 ; n2 =20 ; break; case 2 : n3 =30 ; </pre>													

		<pre>break; case 3 : #can be any constant not used in other case statement n1 =40 ; break; default : n1=100; }</pre>	
(b)		<p>What values will be displayed in JOptionPane when the following codes are executed inside a JAVA program ?</p> <pre>int a=10, b =20; a = a + b; b = a - b; a = a - b; JOptionPane.showMessageDialog(null,a); JOptionPane.showMessageDialog(null,b);</pre>	1
	Ans	<pre>20 10</pre>	
(c)		<p>Write the code given below using 'for' loop</p> <pre>int var=2; while(var<=10) { if (var%2==2) { System.out.println("I am in"); } else { System.out.println("I am out"); } var=var+1; } System.out.println("In and Out Game ");</pre>	1
	Ans	<pre>for(int var=2; var<=10; var=var+1) { if (var%2==2) { System.out.println("I am in"); } else</pre>	

		<pre>{ System.out.println("I am out"); } } System.out.println("In and Out Game ");</pre>	
(d)		<p>Write the value that will be stored in variable a after execution of the following codes inside the JAVA program if :</p> <p>(i) initial value of a is 10. (ii) initial value of a is 100.</p> <pre>int b = 50; if (a > b) a=a+5; a=a+2; System.out.println(a);</pre>	1
	Ans	12 107	
(e)		<p>What will be the output of the following code fragment:</p> <pre>int i=1,x=0; while (i < 12) { if (i % 2 != 0) x = x + i +1; System.out.println(x +3); i ++; }</pre>	2
	Ans	5 5 9 9 15 15 23 23 33 33	
(f)		<p>Read the following case study and answer the questions that follow: A company has developed the following interface to enter and display data related to Income tax of employees. Based on this interface answer the following questions.</p>	

Control Text	Variable Name
ENTER EMP CODE	jTFEmpCode
ENTER EMP NAME	jTFEmpName
ENTER TAXABLE INCOME	jFTTaxableIncome
CALCULATE	jBTNCalculate
CLEAR	jBTNClear
EXIT	jBTNExit
INCOME TAX	jTFIncomeTax
EDUCATION TAX	jTFEducationTax
SURCHARGE	jTFSurcharge
TOTAL TAX AMOUNT	jTFTotalTaxAmount

- (i) When calculate command button is clicked income tax, educational tax , surcharge and total tax (sum of income tax, education tax ,surcharge) is displayed in their respective text fields based on the following criterion :

Taxable income	Income Tax	Education tax	Surcharge
upto 100000	NIL	NIL	NIL
100001 to 150000	10% of amount exceeding Rs. 100000	3% of Income Tax	NIL
150001 to 250000	5000 + 20% of amount exceeding	3% of Income Tax	NIL

			Rs. 150000			
		250001 and above	25000 + 20% of amount exceeding Rs. 250000	3% of Income tax	2% of Income Tax	
	Ans	<pre> int income=0 ,tax=0 , etax=0 , surcharge=0, totalTax=0 ; income = Integer.parseInt(jTFTaxableIncome.getText()); if(income >= 100001 && income <= 150000) { tax = (income-100000) * 10/100; etax = tax * 3/100 ; surcharge =0; } else if (income >= 150001 && income <= 250000) { tax = (income-150000) * 20/100 + 5000; etax = tax * 3/100 ; surcharge =0; } else if (income >= 250001) { tax = (income-250000) * 20/100 + 25000; etax = tax * 3/100 ; surcharge = tax * 2/100 ; } totalTax = tax + etax + surcharge ; jTFIncomeTax.setText(" " + tax); jTFEducationTax.setText(" "+etax); jTFSurcharge.setText(" "+surcharge); jTFTotalTaxAmount.setText(" " + totalTax); </pre>				
	(ii)	Write the code to clear all Text Fields and disable all Buttons.				1
	Ans	<pre> jTFEmpCode.setText(" "); jTFEmpName.setText(" ") jTFTaxableIncome.setText(" "); jTFIncomeTax.setText(" "); jTFEducationTax.setText(" "); jTFSurcharge.setText(" "); jTFTotalTaxAmount.setText(" "); jBTNCalculate.setEnabled(false); jBTNClear.setEnabled(false); jBTNExit.setEnabled(false); </pre>				
	(iii)	Write the code for the EXIT button to stop running the application.				1

		Ans	System.exit(0);																									
5			<p>Consider the following table 'PAYMENT'. Write SQL commands for the statements (i) to (iv) and write output for SQL queries (v) and (vi).</p> <p style="text-align: center;">Table : PAYMENT</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>PAYMENT_ID</th> <th>CUSTOMER_ID</th> <th>AMOUNT</th> <th>PAYMENT_DATE</th> </tr> </thead> <tbody> <tr> <td>P101A</td> <td>C5001</td> <td>9000</td> <td>2018-01-08</td> </tr> <tr> <td>P350C</td> <td>C5420</td> <td>15000</td> <td>2018-01-31</td> </tr> <tr> <td>P150B</td> <td>C6550</td> <td>16000</td> <td>2018-02-05</td> </tr> <tr> <td>P175C</td> <td>C4000</td> <td>9000</td> <td>2018-02-16</td> </tr> <tr> <td>P200B</td> <td>C5200</td> <td>12000</td> <td>2018-03-16</td> </tr> </tbody> </table>	PAYMENT_ID	CUSTOMER_ID	AMOUNT	PAYMENT_DATE	P101A	C5001	9000	2018-01-08	P350C	C5420	15000	2018-01-31	P150B	C6550	16000	2018-02-05	P175C	C4000	9000	2018-02-16	P200B	C5200	12000	2018-03-16	
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	(i)		To display the PAYMENT_ID and AMOUNT increased by 500 of all the payments. (amount should only be displayed as increased; there should be no increase in the data in the table)	1																								
	Ans		SELECT PAYMENT_ID , AMOUNT+500 FROM PAYMENT;																									
	(ii)		To display the details of all the payments made during the period 2018-01-31 to 2018-03-16 (inclusive of both the dates).	1																								
	Ans		SELECT * FROM PAYMENT WHERE PAYMENT_DATE BETWEEN "2018-01-31" to "2018-03-16"																									
	(ii)		To display CUSTOMER_ID, AMOUNT of those Payment where the last letter of the Payment ID (PAYMENT_ID) is 'C'.	1																								
	Ans		SELECT CUSTOMER_ID , AMOUNT FROM PAYMENT WHERE PAYMENT_ID LIKE "%C";																									
	(iv)		<p>Write SQL command to add one more column in the PAYMENT table with the following specification :</p> <p>Name of the column : CUSTOMER_NAME Datatype of the column : VARCHAR Size = 30 Constraint : NOT NULL</p>	1																								
	Ans		ALTER TABLE PAYMENT ADD CUSTOMER_NAME VARCHAR(30) NOT NULL ;																									
	(v)		SELECT * FROM PAYMENT WHERE PAYMENT_ID LIKE "%C" AND AMOUNT > 10000 ;	1																								
	Ans																											

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		(vi)	SELECT COUNT(DISTINCT AMOUNT) FROM PAYMENT;	1																								
		Ans	4																									
6	(a)		<p>Write SQL statement to create a table 'SHOP' with the following structure :</p> <table border="1"> <thead> <tr> <th>Field</th> <th>Type</th> <th>Constraint</th> <th>Default</th> </tr> </thead> <tbody> <tr> <td>ID</td> <td>VARCHAR(5)</td> <td>PRIMARY KEY</td> <td></td> </tr> <tr> <td>ARTICLE</td> <td>VARCHAR(20)</td> <td>UNIQUE ,NOT NULL</td> <td></td> </tr> <tr> <td>DEALER</td> <td>VARCHAR(20)</td> <td>UNIQUE</td> <td></td> </tr> <tr> <td>PRICE</td> <td>INT</td> <td>Price should be >100</td> <td></td> </tr> <tr> <td>PUBLISHER</td> <td>VARCHAR(20)</td> <td></td> <td>"GEETA PRESS"</td> </tr> </tbody> </table>	Field	Type	Constraint	Default	ID	VARCHAR(5)	PRIMARY KEY		ARTICLE	VARCHAR(20)	UNIQUE ,NOT NULL		DEALER	VARCHAR(20)	UNIQUE		PRICE	INT	Price should be >100		PUBLISHER	VARCHAR(20)		"GEETA PRESS"	2
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PUBLISHER	VARCHAR(20)		"GEETA PRESS"																									
		Ans	CREATE TABLE SHOP(ID VARCHAR(5) PRIMARY KEY , ARTICLE VARCHAR(20) UNIQUE NOT NULL, DEALER VARCHAR(20) UNIQUE , PRICE INT ,PUBLISHER VARCHAR(20) DEFAULT "GEETA PRESS", CHECK(PRICE>100));																									

(b)		<p style="text-align: center;">Table : SALESMAN</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Salesman_id</th> <th>Name</th> <th>City</th> <th>Commission</th> </tr> </thead> <tbody> <tr> <td>5001</td> <td>Ranveer</td> <td>Gurugram</td> <td>0.15</td> </tr> <tr> <td>5002</td> <td>Ruchi</td> <td>Karnal</td> <td>0.13</td> </tr> <tr> <td>5005</td> <td>Aman</td> <td>Ambala</td> <td>0.11</td> </tr> <tr> <td>5006</td> <td>Seema</td> <td>Panchkula</td> <td>0.14</td> </tr> <tr> <td>5003</td> <td>Abhey</td> <td>Ambala</td> <td>0.12</td> </tr> <tr> <td>5007</td> <td>Arsi</td> <td>Panchkula</td> <td>0.13</td> </tr> </tbody> </table> <p style="text-align: center;">Table : CUSTOMER</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Customer_id</th> <th>Cust_name</th> <th>City</th> <th>Grade</th> <th>Salesman_id</th> </tr> </thead> <tbody> <tr> <td>3002</td> <td>Ashish</td> <td>Delhi</td> <td>100</td> <td>5001</td> </tr> <tr> <td>3005</td> <td>Ruhi</td> <td>Karnal</td> <td>200</td> <td>5002</td> </tr> <tr> <td>3001</td> <td>Rattan</td> <td>Panchkula</td> <td>150</td> <td>5005</td> </tr> <tr> <td>3004</td> <td>Amay</td> <td>Patna</td> <td>300</td> <td>5006</td> </tr> <tr> <td>3007</td> <td>Srijan</td> <td>Gurugram</td> <td>250</td> <td>5001</td> </tr> <tr> <td>3009</td> <td>Seema</td> <td>Ambala</td> <td>100</td> <td>5003</td> </tr> <tr> <td>3008</td> <td>Ritik</td> <td>Chandigarh</td> <td>300</td> <td>5002</td> </tr> <tr> <td>3003</td> <td>Ayan</td> <td>Raipur</td> <td>250</td> <td>5007</td> </tr> </tbody> </table> <p>Identify the Foreign Key in the above tables [SALESMAN ,CUSTOMER]</p>	Salesman_id	Name	City	Commission	5001	Ranveer	Gurugram	0.15	5002	Ruchi	Karnal	0.13	5005	Aman	Ambala	0.11	5006	Seema	Panchkula	0.14	5003	Abhey	Ambala	0.12	5007	Arsi	Panchkula	0.13	Customer_id	Cust_name	City	Grade	Salesman_id	3002	Ashish	Delhi	100	5001	3005	Ruhi	Karnal	200	5002	3001	Rattan	Panchkula	150	5005	3004	Amay	Patna	300	5006	3007	Srijan	Gurugram	250	5001	3009	Seema	Ambala	100	5003	3008	Ritik	Chandigarh	300	5002	3003	Ayan	Raipur	250	5007	1
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(c)		With reference to the above given tables (in Q6 b), write commands in SQL for (i) to (iii).																																																																										
	(i)	Write a query to find those customers with their name and those salesmen with their name and city who lives in the same city.	2																																																																									
	Ans	SELECT Cust_Name ,Name from SALESMAN , CUSTOMER where SALESMAN.City = CUSTOMER.City AND SALESMAN.Salesman_id=CUSTOMER. Salesman_id;																																																																										

	(ii)	Write a SQL statement to find the names of all customers along with the salesmen who works for them.	2				
	Ans	SELECT Cust_Name ,Name from SALESMAN , CUSTOMER where SALESMAN. Salesman_id=CUSTOMER. Salesman_id;					
	(iii)	Write a SQL statement to find the names of all customers along with the salesmen where grade is more than 200	2				
	Ans	SELECT Cust_Name ,Name from SALESMAN , CUSTOMER where Grade>200 AND SALESMAN. Salesman_id=CUSTOMER. Salesman_id;					
	(d)	Which MYSQL command is used to display the structure of table?	1				
	Ans	DESCRIBE <TABLE NAME>;					
	(e)	What is the usage of Foreign Key in a table?	2				
	Ans	A FOREIGN KEY is used to ensure referential integrity between the relations or tables in a Database.					
	(f)	Write the output of the following MYSQL statements (i) SELECT SUBSTR("MALYALAM",3,3); (ii)SELECT DAY("2018-03-16") ; (iii)SELECT INSTR("GURUGRAM REGION","ON"); (iv)SELECT ROUND(135.375,2);	2				
	Ans	(i)LYA (ii)16 (iii)14 (iv)135.38					
7	(a)	How has society benefited from e-Governance? Explain briefly.	2				
	Ans	E-Governance ensures Accountability, transparency and speed processing of different schemes. It reduce the time and money requirements for implementations of different projects.					
	(b)	How e-Learning is being benefited to the student?	1				
	Ans	With the use of e-Learning students can access educational resources as per their requirements at any time.					
	(c)	Select the appropriate JAVA SWING controls for the following functions:	2				
		<table border="1"> <thead> <tr> <th>Sr No.</th> <th>Function to Perform</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> </tr> </tbody> </table>	Sr No.	Function to Perform			
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			<table border="1"> <tr> <td>1</td> <td>To accept password from the user</td> </tr> <tr> <td>2</td> <td>To accept the domicile state of the user</td> </tr> <tr> <td>3</td> <td>To accept Address of the user</td> </tr> <tr> <td>4</td> <td>To let the user choose one QUALIFICATION out of the categories : GRADUATE/POST-GRADUATE/DOCTORATE</td> </tr> </table>	1	To accept password from the user	2	To accept the domicile state of the user	3	To accept Address of the user	4	To let the user choose one QUALIFICATION out of the categories : GRADUATE/POST-GRADUATE/DOCTORATE									
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