

Blue Print Of Question Paper
Informatics Practices (Theory) Code : 065
Class XII

	Knowledge			Understanding			Application			Total Marks
	LA (Marks 4)	SA (Marks 2)	VSA (Mark 1)	LA (Marks 4)	SA (Marks 2)	VSA (Mark 1)	LA (Marks 4)	SA (Marks 2)	VSA (Mark 1)	
Business computing		4(2)			4(2)			2(1)		10 marks
Visual basic Programming		4(2)		8(2)	4(2)		8(2)	4(2)	2(2)	30 marks
RDBMS (SQL and PL/SQL)	4(1)	2(1)		12(3)	2(1)		8(2)	2(1)		30 marks
										70 marks

Long Answer (4 marks) : 10 questions 40 marks

Short Answer (2 marks) : 14 questions 28 marks

Very Short Answer (1 mark) : 2 questions 2 marks

Total : 70 marks

Design of Question paper
Informatics Practices (Theory Code : 065)
Class XII

TIME : 3 Hrs

MM : 70

Weightage of different topics/units

SNO	UNIT	MARKS
1	Business Computing	10
2	Programming: Visual Basic	30
3	Relational database Management System	30

Difficulty level of Questions

SNO	DIFFICULTY LEVEL	PERCENTAGE OF MARKS
1	Easy	15%
2	Average	70%
3	Difficult	15%

Weightage to different forms of questions

SNO	Types of Questions	Number of questions	Total Marks
1	Very Short Answer (1 mark)	2	2
2	Short Answer(2 marks)	14	28
3	Long Answer (4 marks)	10	40
	Total		70

Informatics Practices (Code : 065)
Sample Question Paper - I
Class XII

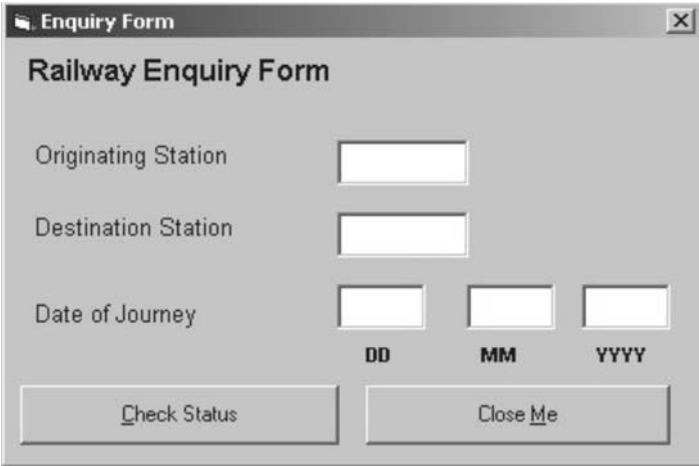
TIME : 3 Hrs

MM : 70

Note

1. This question paper is divided into 3 sections.
2. Section - A consists of 30 marks.
3. Section - B and Section - C are of 20 marks each.
4. Answer the questions after carefully reading the text.

No.	Questions	Marks
Section - A		
Q 1.	<p>Answer the following questions:</p> <p>(a) Expand the following abbreviations:</p> <ul style="list-style-type: none"> i) OSS ii) GNU iii) W3C iv) FOSS <p>(b) Compare Front end and Back end with respect to software.</p> <p>(c) Give one example to show how Data Mining is useful.</p> <p>(d) Write the purpose of feasibility study conducted during System Development Life Cycle.</p> <p>(e) Identify the type of relationship represented by the following statements and draw an entity relationship diagram to show it.</p> <p>"Each item must have one and only one price. Each price may be for more than one item"</p>	<p>2</p> <p>2</p> <p>2</p> <p>2</p> <p>2</p>
Q2	<p>Answer the following questions:</p> <p>(a) Write names of any two popular Relational Database Management Systems.</p> <p>(b) Define SQL. List three subcategories of SQL commands giving one example of command in each category.</p>	<p>2</p> <p>4</p>

No.	Questions	Marks
<p>Q3</p>	<p>(c) Distinguish between Decision Control and Looping Control Structure giving one example each of commands provided by PL/SQL for both these types of control structures.</p>	4
	<p>Answer the following questions:</p>	
	<p>(a) What is an Event? Name an Event Driven programming language.</p>	2
	<p>(b) Differentiate using a suitable example, between MsgBox () and InputBox () functions in Visual Basic</p>	4
	<p>(c) Differentiate between ADODB project reference and ADO DC in a form using suitable Example</p>	4
<p>Q4</p>	<p>Section - B</p>	
	<p>Read the following case study and answer the questions that follow:</p>	
	<p>Mr Nath of Quick Solution Software Corporation has got requirement of a Software Project from a Customer in Tours and Travel Business. He performed the preliminary analysis and found that software Application should be based on Client/Server technology. He opted for Visual Basic Language to develop the front end. Given below is one of the forms to enquire about railway reservation. Carefully observe the following picture.</p>	
		

No.	Questions		Marks	
	The List for the above form is as follows:			
	Object Type	Object Name	Description	
	Form	frmEnquiryForm	The Main Form Object	
	Label	lblOriginatingStation		
		lblDestinationStation		
		lblDateOfJourney		
	LbIDD			
	LbIMM			
	lbYYYY			
Text Box	txtOriginatingStation	To enter a string type value		
	txtDestinationStation	To enter a string type value		
	TxtDD	To enter a Date		
	txtMM	To enter a numeric value of month		
	txtYYYY	To enter a numeric value of Year		
Command Button	cmdCheckStatus	To check Status of Ticket Availability		
	cmdCloseMe	To close the form frmEnquiryForm		
Q5	<p>(a) Write the value for the Caption property of the Object cmdCheckStatus.</p> <p>(b) Write the code snippet for cmdCloseMe Command Button if it is required to close the form on its Click event.</p> <p>(c) Write a code snippet so that the user can enter only number in the DD field.</p> <p>(d) Write a procedure to check for the validity of the entered date value. Clear the text boxes for invalid date value and set the focus on txtDD.</p> <p>(a) Find the output of the following when the command button with caption command1 is clicked:</p> <pre> DIM X as integer PRIVATE SUB command1_click() PRINT "Hello" CALL First(45) PRINT "Bye" </pre>		<p>1</p> <p>1</p> <p>4</p> <p>4</p> <p>2</p>	

No.	Questions	Marks
	<pre> END SUB PRIVATE SUB First(Num as Integer) X = 10 PRINT X PRINT Num*X End sub </pre> <p>(b) Rewrite the following code using SELECT.. CASE without effecting the output of the code:</p> <pre> DIM Total as INTEGER Total = VAL(text1.text) IF Total >= 75 THEN Grade = "A" ELESEIF Total >=50 THEN Grade = "B" ELSEIF Total >= 33 THEN Grade = "C" Else Grade = "D" End if </pre> <p>(c) Rewrite the corrected code after removing syntax errors from the following VB Code:</p> <pre> DIMENSION Total AS INT Total=30.0 DO WHILE 20 >= Total Total=Total-5 End Do PRINT Total </pre>	<p>2</p> <p>2</p>

No.	Questions	Marks																														
	<p>(d) Rewrite the following code using FOR..NEXT without affecting the output:</p> <pre>Dim Num As Integer Num = 1 DO WHILE Num <= 5 Num = Num + 1 PRINT num ; LOOP</pre> <p>(e) Write the output that the following code segment :</p> <pre>Msg = "Technology" PRINT MID(LTRIM(Msg),1,4)+ " and " +" Kids" PRINT (3 > 8 * 2) AND (3 ^ 2 < 10) PRINT VAL("100 Ways") + LEN(Msg) PRINT INSTR(Msg,"log")</pre>	<p>2</p> <p>2</p>																														
6	<p style="text-align: center;">Section C</p> <p>Answer the questions (with respect to SQL and PL/SQL):</p> <p>(a) Write a SQL (DDL) query to create the following table Employee</p> <table border="1" data-bbox="197 1323 1390 1671"> <thead> <tr> <th>Column Name</th> <th>Data Type</th> <th>Size</th> <th>Constraint</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>EmpID</td> <td>NUMBER</td> <td>6</td> <td>PRIMARY KEY</td> <td></td> </tr> <tr> <td>EmpName</td> <td>VARCHAR2</td> <td>20</td> <td>NOT NULL</td> <td></td> </tr> <tr> <td>EmpAddress</td> <td>VARCHAR2</td> <td>30</td> <td></td> <td></td> </tr> <tr> <td>EmpPhone</td> <td>VARCHAR2</td> <td>10</td> <td></td> <td></td> </tr> <tr> <td>EmpSal</td> <td>NUMBER</td> <td>9,2</td> <td></td> <td></td> </tr> </tbody> </table> <p>(b) Write PL / SQL Code to increase the salary of all the employees by some percentage amount accepted from the user.</p> <p>(c) Write program code to declare and use an Explicit Cursor to display the Salary increased by 10%.</p>	Column Name	Data Type	Size	Constraint	Description	EmpID	NUMBER	6	PRIMARY KEY		EmpName	VARCHAR2	20	NOT NULL		EmpAddress	VARCHAR2	30			EmpPhone	VARCHAR2	10			EmpSal	NUMBER	9,2			<p>2</p> <p>4</p> <p>4</p>
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7	<p data-bbox="217 304 1134 338">Assume that you are provided with the following two tables :</p> <p data-bbox="217 365 395 398">Table: Dept</p> <table border="1" data-bbox="268 421 1315 712"> <thead> <tr> <th>DEPTNO</th> <th>DNAME</th> <th>LOC</th> </tr> </thead> <tbody> <tr> <td>10</td> <td>ACCOUNTING</td> <td>NEW YORK</td> </tr> <tr> <td>20</td> <td>RESEARCH</td> <td>DALLAS</td> </tr> <tr> <td>30</td> <td>SALES CHICAGO</td> <td></td> </tr> <tr> <td>40</td> <td>OPERATIONS</td> <td>BOSTON</td> </tr> </tbody> </table> <p data-bbox="217 745 395 779">Table: Emp</p> <table border="1" data-bbox="196 797 1390 1675"> <thead> <tr> <th>EMPNO</th> <th>ENAME</th> <th>JOB</th> <th>MGR</th> <th>HIREDATE</th> <th>SAL</th> <th>COMM</th> <th>DEPTNO</th> </tr> </thead> <tbody> <tr><td>7369</td><td>SMITH</td><td>CLERK</td><td>7902</td><td>17-Dec-80</td><td>800</td><td></td><td>20</td></tr> <tr><td>7499</td><td>ALLEN</td><td>SALESMAN</td><td>7698</td><td>20-Feb-81</td><td>1600</td><td>300</td><td>30</td></tr> <tr><td>7521</td><td>WARD</td><td>SALESMAN</td><td>7698</td><td>22-Feb-81</td><td>1250</td><td>500</td><td>30</td></tr> <tr><td>7566</td><td>JONES</td><td>MANAGER</td><td>7839</td><td>02-Apr-81</td><td>2975</td><td></td><td>20</td></tr> <tr><td>7654</td><td>MARTIN</td><td>SALESMAN</td><td>7698</td><td>28-Sep-81</td><td>1250</td><td>1400</td><td>30</td></tr> <tr><td>7698</td><td>BLAKE</td><td>MANAGER</td><td>7839</td><td>01-May-81</td><td>2850</td><td></td><td>30</td></tr> <tr><td>7782</td><td>CLARK</td><td>MANAGER</td><td>7839</td><td>09-Jun-81</td><td>2450</td><td></td><td>10</td></tr> <tr><td>7788</td><td>SCOTT</td><td>ANALYST</td><td>7566</td><td>09-Dec-82</td><td>3000</td><td></td><td>20</td></tr> <tr><td>7839</td><td>KING</td><td>PRESIDENT</td><td>17-Nov-81</td><td></td><td>5000</td><td></td><td>10</td></tr> <tr><td>7844</td><td>TURNER</td><td>SALESMAN</td><td>7698</td><td>08-Sep-81</td><td>1500</td><td>0</td><td>30</td></tr> <tr><td>7876</td><td>ADAMS</td><td>CLERK</td><td>7788</td><td>12-Jan-83</td><td>1100</td><td></td><td>20</td></tr> <tr><td>7900</td><td>JAMES</td><td>CLERK</td><td>7698</td><td>03-Dec-81</td><td>950</td><td></td><td>30</td></tr> <tr><td>7902</td><td>FORD</td><td>ANALYST</td><td>7566</td><td>03-Dec-81</td><td>3000</td><td></td><td>20</td></tr> <tr><td>7934</td><td>MILLER</td><td>CLERK</td><td>7782</td><td>23-Jan-82</td><td>1300</td><td></td><td>10</td></tr> </tbody> </table> <p data-bbox="217 1693 528 1727">The table structure are</p> <p data-bbox="217 1753 395 1787">Table: Dept</p> <table border="1" data-bbox="196 1805 1390 2020"> <thead> <tr> <th>Colum Name</th> <th>Data Type</th> <th>Size</th> <th>Constraint</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>DeptNo</td> <td>Number</td> <td>2</td> <td>PRIMARY KEY</td> <td></td> </tr> <tr> <td>Dname</td> <td>VARCHAR2</td> <td>10</td> <td>NOT NULL</td> <td></td> </tr> <tr> <td>Loc</td> <td>VARCHAR2</td> <td>10</td> <td></td> <td></td> </tr> </tbody> </table>	DEPTNO	DNAME	LOC	10	ACCOUNTING	NEW YORK	20	RESEARCH	DALLAS	30	SALES CHICAGO		40	OPERATIONS	BOSTON	EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO	7369	SMITH	CLERK	7902	17-Dec-80	800		20	7499	ALLEN	SALESMAN	7698	20-Feb-81	1600	300	30	7521	WARD	SALESMAN	7698	22-Feb-81	1250	500	30	7566	JONES	MANAGER	7839	02-Apr-81	2975		20	7654	MARTIN	SALESMAN	7698	28-Sep-81	1250	1400	30	7698	BLAKE	MANAGER	7839	01-May-81	2850		30	7782	CLARK	MANAGER	7839	09-Jun-81	2450		10	7788	SCOTT	ANALYST	7566	09-Dec-82	3000		20	7839	KING	PRESIDENT	17-Nov-81		5000		10	7844	TURNER	SALESMAN	7698	08-Sep-81	1500	0	30	7876	ADAMS	CLERK	7788	12-Jan-83	1100		20	7900	JAMES	CLERK	7698	03-Dec-81	950		30	7902	FORD	ANALYST	7566	03-Dec-81	3000		20	7934	MILLER	CLERK	7782	23-Jan-82	1300		10	Colum Name	Data Type	Size	Constraint	Description	DeptNo	Number	2	PRIMARY KEY		Dname	VARCHAR2	10	NOT NULL		Loc	VARCHAR2	10			
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	Colum Name	Data Type	Size	Constraint	Description	
	EmpNo	Number	4	PRIMARY KEY		
	Ename	VARCHAR2	10	NOT NULL		
	JOB	VARCHAR2	10			
	MGR	NUMBER	4			
	HIREDATE	DATE				
	SAL NUMBER	(7,2)				
	COMM	NUMBER	(7,2)			
	DEPTNO	NUMBER	2	FOREIGN KEY	References DeptNo field of Dept Table	
	<p>(a) Write SQL command to create a View on the above tables to show Ename, Dname, Job and Sal of an employee whose department number is either 10 or 20.</p> <p>(b) Write a SQL Function to return Bonus, which is calculated as 20% of the amount passed. Also give an example of its use on column Sal of Emp table.</p> <p>(c) Write the PL/SQL code to create a stored procedure Raise_Salary to increase salary of an employee whose EMPNO and Sal_Percentage is passed as IN mode argument and will also display the changed value.</p>					<p>2</p> <p>4</p> <p>4</p>