

B.SC. FINAL COMPUTER SCIENCE
SEMESTER-VI
6S-COMPUTER SCIENCE
PL/SQL AND ADVANCED VISUAL BASIC

UNIT-I : Data Integrity, types of integrity constants. **Functions :** Number Functions - AVG, MAX, MIN, SUM, COUNT, TO-NUMBER, GREATEST, LEAST, ABS, MOD, FLOOR, CEIL, TRUNC, SQRT, SIGN, SIN, COS, LOG, EXP. Character Function : INITCAP, LOWER, UPPER, INSTR, LENGTH, LTRIM, RTRIM, LPAD, RPAD, SOUNDIX, DECODE.

Joins and Unions : Self, equi and outer join, unions and intersection.

UNIT-II: PL/SQL : Features and block structure, variables and constant, data types, control structure. **Cursor :** Concepts of cursor, types, declaring, opening, using cursors, fetching data, closing a cursor, cursor attributes.

Transaction : Rollback, commit and autocommit, save point, rollback segment.

UNIT-III : Securities of Database : Users, creating users, roles, creating roles, types of privileges, GRANT and REVOKE command, data locks.

UNIT-IV : Dialog Box Control : Need for dialog box control, adding the dialog box control, producing the color dialog box control, handling the cancel button, producing the font dialog box, producing the open dialog boxes, producing file save dialog boxes, producing the print dialog boxes. **Mouse and Control :** Mouse response, list box controls, combo box control, timer control, working with arrays, declaring arrays, multiple list boxes.

UNIT-V : Working with Forms : Form collections, accessing the form collection using the subscripts, the count property, uploading forms, placing text on forms, format with print, positioning the print method, multiple forms, placing tool bars on forms.

UNIT-VI : Working with Files : Open statement, file modes, locking the file, close statement, working with sequential access file, print# statement, input# statement, write# statement, working with random access file, put statement, get statement, defining user defined data types, file control, file related commands.

Books Recommended :

1. Database Management System, Mujumdar & Bhattacharya, TMH.
2. Oracle the Complete Reference, Koch & Loney, TMH.
3. Understanding Oracle, Perry and Latic, BPB.
4. Essential of Oracle 8, Tom Lewis.
5. Visual Basic 6.0, The Complete Reference, Noel Jerke, TMH.
6. Guide VB 6.0 Black Book, Peter Nortan Techmedia.

7. Mastering VB 6.0, Evangelos Petroustos, BPB.

8. Visual Basic 6.0 in 21 days, Greg Perry, Techmedia.

Practicals :

Group A - Minimum 8 Practical based on Unit-I, II, III.AND

1. Group B - Minimum 8 Practical based on Unit-IV, V, VI.