1758 *Your Roll No. ....*

PGDCA / II Sem. A

Paper–CS–2.3

OBJECT ORIENTED PROGRAMMING

(Admissions of 1998 and onwards)

Time : 3 Hours *Maximum Marks : 100*

*(Write your Roll No. on the top immediately
on receipt of this question paper.)
Attempt **all** questions. All parts of a
question must be answered together.*

1. (a) Explain the purpose of Watch window, Immediate
        window and Project explorer window. 2×3=6

    (b) Why is Visual Basic known as 4×3=12

        (i) Event driven programming language

        (ii) Object oriented programming language

        (iii) Rapid application development tool.

    (c) Explain the advantage of Text Box over Input
        Box. 2

2. (a) Explain the purpose of :   1×5=5

(i) Key preview property of a form

(ii) Index property of controls

(iii) List Index property of list box

(iv) Filter property of common dialog control

(v) Interval property of Timer control

(b) Differentiate between :   3×5=15

(i) Event and property procedures

(ii) Modules and class modules

(iii) Data Grid and Data List control

(iv) Methods and events of a control

(v) List box and Embo box

3. (a) Write VB statements for the following :   2×5=10

(i) Displaying a message "Do you want to continue?" in a message box with two buttons Yes and No and a question mark icon and title of the box as "Response".

(ii) To get a file handle and use that to open a file sample dat for random access (assume that the word length is 20 bytes).

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(iii) To set the path property of the file list box same as that of your current application path.

(iv) To check that user has entered a numeric value in the text box.

(v) To define a user defined type student with two fields name and age.

(b) Write the headers for Key press, Key up and Key down events of a text box. Give one example each to show that Key press is more suitable than Key up / Key down and vice versa.   5

(c) Write a function My-Reverse which uses "Mid" built in-function for strings and returns a reversed string.   5

4. (a) Design a project which has one menu item "operations" with sub menu items as Add, Multiply, Difference, Divide and Exit. Clicking any of the sub-menus performs the indicated operation on the two numbers entered through text boxes and displays the result on a label selecting exit terminates the program Validate your inputs properly.   6

(b) What is meant by deployment of a project ?   3

(c) Explain briefly any two debugging facilities provided by VB IDE. 3+3

(d) What are Active X DLL's. Write steps to convert a class module into Active X DLL and also steps of using the created DLL into a project. 5

5. (a) Explain the use of Data Report Designer controls Rpt text box, Rpt label and Rpt function. How can we get the page number and date (in long format) at the end of each page of the report ? 6

(b) What are add-Ins ? List the steps to attach the Data form coiz and add-in to the VBIDE. What does this coizard do ? 5

(c) Design a project with an image box containing some picture and a timer control. Set the appropriate properties of the controls and write code on appropriate event of the timer control such that image appears and disappears alternatively. Use a static variable wherever required . 6

(d) What are control arrays ? Write two ways of creating a control array. 3