

**GUJARAT TECHNOLOGICAL UNIVERSITY****BE - SEMESTER-V • EXAMINATION – WINTER 2013****Subject Code: 150706****Date: 09-12-2013****Subject Name: Visual Basic Application and Programming****Time: 10.30 am - 01.00 pm****Total Marks: 70****Instructions:**

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

- Q.1** (a) What is VBA? Explain the advantages of VBA. **07**  
 (b) Answer the following: 1. What is a macro? Explain the limitations of a macro. **07**  
 2. Give an example stating application of Macro.
- Q.2** (a) How do you declare variables in VBA? Explain scope and lifetime of variables **07**  
 (b) What is property window? Explain 2 properties of the following 3 controls **07**  
 1. Label 2. Command Button 3. Textbox
- OR**
- (b) Write a code in VBA such that when you click on a command button labeled "Show" (7) it should display a label with text "Welcome to GTU" and make the caption of the command button "Hide". When you click on the same command button with caption "Hide", it should hide the label on the screen and make the caption of the command button "Show". **07**
- Q.3** (a) Write a VBA code which accepts percentage from the user and displays the grade based on following conditions. **07**
- |                                    |                         |
|------------------------------------|-------------------------|
| 1. Percentage $\geq 70$            | Grade is "Distinction"  |
| 2. Percentage $\geq 60$ and $< 70$ | Grade is "First class"  |
| 3. Percentage $\geq 50$ and $< 60$ | Grade is "Second class" |
| 4. Percentage $\geq 40$ and $< 50$ | Grade is "Pass class"   |
| 5. Percentage $< 40$               | Grade is "Fail"         |
- (b) Write a VBA code which accepts 10 numbers in an array and displays the count of even and odd numbers in the array. **07**
- OR**
- Q.3** (a) Write a VBA code which accepts a number from the user and displays the reverse of that number **07**  
 (b) Write a VBA code which displays the name of the branch in a textbox on selecting the code of the branch from a list box. Also mention the property of the list box that needs to be set. (The branch code belonging to your college should be displayed in the list box. **07**
- Q.4** (a) What is the difference between list box and combo box? Give an example of application of list box and combo box. **07**  
 (b) What is Event driven programming? Explain at least 3 different events of different controls. **07**
- OR**
- Q.4** (a) Write a function which accepts 2 numbers as arguments and returns the gcd of the two numbers. **07**  
 (b) Write a note on fixed arrays and dynamic arrays. **07**
- Q.5** (a) Explain resume, resume next and resume label with examples. **07**  
 (b) Differentiate between msgbox and Inputbox. Give example of each. **07**
- OR**
- Q.5** (a) What is a Macro? Give applications of macros with example. **07**  
 (b) What is a database. Which control is used to access database in VBA. Give properties of this control. **07**

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