

**GUJARAT TECHNOLOGICAL UNIVERSITY****BE - SEMESTER-V (Old) EXAMINATION – WINTER 2019****Subject Code: 150706****Date: 06/12/2019****Subject Name: Visual Basic Application & Programming****Time: 10:30 AM TO 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) List various advantage and disadvantages of Visual Basic programming. **07**  
(b) Explain all VBA operators, its precedence in details with examples. **07**
- Q.2** (a) How do you declare variables in VBA? Explain scope and lifetime of variables. **07**  
(b) 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  $\geq 50$  and  $< 70$  Grade is "First class"  
3. percentage  $\geq 40$  and  $< 50$  Grade is "Second class"  
4. percentage  $< 40$  Grade is "Fail"
- OR**
- (b) What is a Macro? Give applications of macros with example. **07**
- Q.3** (a) Explain Following terms: Breakpoint, immediate window, code window, object browser, block commenting (Any Three). **07**  
(b) Explain syntax of select...case statement with example. **07**
- OR**
- Q.3** (a) What is the difference between list box, check box and combo box? Give an example of list box and combo box. **07**  
(b) How can we handle runtime errors in VB? Explain with suitable example. **07**
- Q.4** (a) Compare procedure and function. How can we create them in VB? **07**  
(b) Write a VBA code for storing and adding 10 numbers in an array. **07**
- OR**
- Q.4** (a) Explain fixed arrays and dynamic arrays with example. **07**  
(b) Write a short note on Digital signature. **07**
- Q.5** (a) What is a database? Which control is used to access database in VBA. Give properties of this control. **07**  
(b) Write the steps for creating ActiveX Control and how to use in ActiveX in a new project. **07**
- OR**
- Q.5** (a) Explain msgbox and inputbox with suitable example. **07**  
(b) Explain different types of Resume statements with example. **07**

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