COS 602.1 **Reg. No. ……**

CREDIT BASED SIXTH SEMESTER B.Sc. DEGREE EXAMINATION APRIL 2012

COMPUTER SCEINCE

PAPER VIII: VISUAL PROGRAMMING USING VB.NET

Time: 3 Hrs **Max. Marks: 70**

PART – A

1. Answer any TEN questions from the following: **10x1=10**

a) List any two salient features of the VB.Net Language.

b) What is the purpose of Intellisense feature?

c) Define methods and events.

d) Write the statement to declare and initialize variable.

e) Which are the two string concatenation operators?

f) Differentiate between SDI & MDI.

g) What is the different between List box and Combo box?

h) Give the syntax of DO....loop.

i) Mention any two 'text selection' properties.

j) Name the two objects that are created while binding data with control object.

k) What is Data Connection object?

l) Explain select command property used in Data Adapter classes.

PART – B

Answer any TWO questions from each unit **2x10=20**

UNIT – I

2. a) Discuss the different components of VB.Net.

   b) Explain any five value data types available in VB.Net. **(5+5)**

3. a) Explain (i) Conditional Operator (ii) bitwise operator with examples.

   b) Write the syntax of 'select case' control flow statement with example. **(6+4)**

4. a) Write a note on scope of variables.

   b) Explain one dimensional and multidimensional arrays with examples. **(5+5)**

UNIT – II

5. a) Explain any six main properties of List Box control.

   b) Write a program to accept register number (text box), Name (text box), Gender (radiobutton), course offered (check box) and display the output in message box in VB.Net. **(6+4)**

6. a) Explain the different form methods available to initialize and execute a form.

   b) Explain the different text manipulation properties available in VB.Net. **(5+5)**

7. a) What is a procedure? How do you pass operators to a procedure?

   b) What is an MDI form? Explain its features. **(5+5)**

UNIT – III

8. a) Define dataset. Discuss the methods and properties of dataset class.

   b) What are the salient features of ADO.Net. **(5+5)**

9. a) Explain the Architecture of ADO.Net.

   b) Discuss the various types of data binding used in VB.Net. **(5+5)**

10. a. How do you add, delete and cancel the records in a dataset?

    b. Discuss the different methods used to navigate through records in a dataset. **(5+5)**

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COS 602.1 **Reg. No. ……**

CREDIT BASED SIXTH SEMESTER B.Sc. DEGREE EXAMINATION APRIL 2013

COMPUTER SCEINCE

PAPER VI–VISUAL PROGRAMMING USING VB.NET

Time: 3 Hrs **Max. Marks: 80**

PART – A

1. Answer any TEN questions from the following: **10x2=20**

a) List any four features of VB.Net IDE.

b) Explain the different way of initializing an one dimensional array.

c) State the difference between an array and a structure.

d) How does an MDI form differ from a Standard form?

e) What is an event? Write an example.

f) Explain with example the two string concatenation operators.

g) Mention any two types of modules. Explain.

h) What is the use of Data Adapter object?

i) What is an interface?

j) Explain custom exception.

k) How to create a data set in VB.Net

l) Why is the finally block used?

PART – B

Answer any TWO questions from each unit

UNIT – I

2. a) Explain two types of FOR…NEXT Statements..

   b) Explain select case structures used in VB.Net with syntax and example. **(5+5)**

3. a) Explain the data types available in VB.Net.

   b) List and explain the different date and time functions available in VB.Net. **(5+5)**

4. a) Explain the different types of projects that can be created with VB.Net IDE.

   b) Explain Redim and Preserve keywords in two-dimensional array with suitable example. **(5+5)**

UNIT – II

5. a) Write a program to accept employee details such as eno, name, date of join, age and salary. Using proper validation, display details through message box.

   b) Explain the different text selection properties and its relevant methods used in the text box. **(6+4)**

6. a) What are the different types of procedures in VB.Net? Explain any one.

   b) Differentiate between
      (i) List box and Combo box
      (ii) Visible property and Enabled property **(6+4)**

7. a) Explain how to create a class and object in VB.Net with Syntax and suitable example.

   b) Explain any five form methods with syntax. **(5+5)**

UNIT – III

Answer any TWO of the following:

8. a) Explain the try-catch method in VB.Net.

   b) Write the VB.Net code to view data from the database table using datagrid control. **(5+5)**

9. a) Explain the properties and methods of Data Adapter Class.

   b) Differentiate between simple biding and complex binding. **(5+5)**

10. a. Explain any five ADO.Net data objects.

    b. Write a VB.Net code to accomplish the following

       (i) Create a table
       (ii) Insert records into table
       (iii) Delete a particular record from the table. **(5+5)**

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COS 602.3 **Reg. No. ……**

CREDIT BASED SIXTH SEMESTER B.Sc. DEGREE EXAMINATION
APRIL 2014
COMPUTER SCEINCE – VIII
Microprocessor Architecture and 8086 programming

Time: 3 Hrs **Max. Marks: 80**

PART – A

1. Answer any TEN questions from the following: **10x2=20**

a) List the registers of the basic computer.

b) Differentiate hardwired control from microprogrammed control.

c) What is a one-address instruction? Give example.

d) List any four data transfer instructions along with their Mnemonics.

e) Discuss how the processor accesses a word data from odd addressed memory location?

f) If CS=81BOH and IP=0253H, calculate the physical address of the next instruction to be executed.

g) List the control flags of 8086 microprocessor.

h) Discuss the operation of EQU directive.

i) List the various rotate instructions of 8086.

j) Differentiate NOT and NEG instructions.

k) What is the use of CBW instruction in division operation? Give example.

l) List the steps to set/reset the trap flag.

PART – B

Answer any TWO questions from each unit.

UNIT – I

2. a) Explain basic computer instruction formats with suitable diagram.

b) Explain the control unit of a basic computer with a suitable diagram. **(4+6)**

3. a) Draw the diagram of common bus system and explain how different registers are connected to it.

b) What is a stack? Explain register stack with a block diagram. **(6+4)**

4. a) List and explain various arithmetic instructions.

b) Explain the role of status register with a suitable diagram. **(4+6)**

UNIT – II

5. a) Draw the internal Architecture of 8086 and explain BIU.

b) Differentiate memory mapped I/O and I/O mapped I/O.

6. a) Explain the following addressing modes with example.
i) Direct addressing mode ii) Indirect iii) Register

b) Explain the following assembler directives with examples to each.

i) STRUCT ii) RECORD iii) ASSUME iv) ENDS **(6+4)**

7. a) Differentiate between the following assembler directives.
i) LENGTH and SIZE
ii) ENDM and ENDP
iii) PUBLIC and EXTERN

b) Discuss the rules for variable names in 8086. **(6+4)**

UNIT – III

8. a) Explain the following instructions with suitable examples.
i) MUL ii) DIV iii) LOOP iv) JCXZ

b) Explain the following string instructions.

i) STOS ii) CMPS **(6+4)**

9. a) Compare and contrast
i) IN and OUT
ii) LAHF and SAHF

b) Explain the operation of various shift instructions with examples. **(4+6)**

10. a) Briefly explain the interrupt actions.

b) Explain the following interrupts

i) INT 02H ii) INT 04H **(5+5)**

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COS 602.3 Reg. No. .....

CREDIT BASED SIXTH SEMESTER B.Sc. DEGREE EXAMINATION APRIL 2016

COMPUTER SCIENCE

PAPER VIII – MICROPROCESSOR ARCHITECTURE AND 8086 PROGRAMMING

Time: 3 Hrs **Max. Marks: 80**

PART – A

1. Answer any TEN questions from the following: **2x10=20**

a) Expand RISC.

b) Write any two features of 8086 Microprocessor.

c) What are zero operand instructions? Give example.

d) Write the use of DAA instruction.

e) List any two flag manipulation instructions.

f) If CS = 8189H and IP = 0232H, Calculate the physical address of the Next instruction to be exceuted.

g) Give the significance of DF in string manipulations.

h) Write the differences between IN and MOV instructions.

i) Distinguish between rotate and shift instructions.

j) What is purpose of EQU directive?

k) Differentiable between internal interrupt and external Interrupt.

l) Write the purpose of HLT and WAIT instructions.

PART – B

Answer any TWO questions from each unit.

UNIT – I

2. a) Explain basic computer instruction formats with suitable diagram. **(4)**

   b) Explain the control unit of a basic computer with suitable diagram. **(6)**

3. a) Explain any three addressing modes with example. **(6)**

   b) List and explain any two arithmetic instructions. **(4)**

4. a) What is a stack? Explain stack register with block diagram. **(6)**

   b) Explain the RISC architecture. **(4)**

UNIT – II

5. a) Explain with suitable diagram the Microprocessor based computer system. **(6)**

   b) Differentiate between memory mapped I/O and I/O mapped I/O. **(4)**

6. a) Suppose that DS=1100H, BX=200H, LIST=250H and SI=500H, determine the memory address accessed by each of the following. **(6)**

   i) MOV LIST [SI+100H], AL ii) MOV [SI+100H], AH iii) MOV CH, [BX+SI]

   b) Explain the directives DW and DB **(4)**

7. a) Explain Macro definition directives with example. **(6)**

   b) Explain the rules for variable names in 8086. **(4)**

UNIT – III

8. a) Explain any two LOOP instructions with examples. **(5)**

   b) Explain any two string transfer instructions with examples. **(5)**

9. a) Explain maskable and Non-maskable Interrupts of 8086. **(6)**

   b) Explain any two unconditional jump instructions. **(4)**

10. a) Explain the instructions INTO and INT 3. **(4)**

    b) Explain int86X and intdos functions with syntax and example. **(6)**

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