## V Semester B.C.A. Examination, Feb./March 2010
## SYSTEM PROGRAMMING

Time : 3 Hours                                                      Max. Marks : 80

***Instructions*** *: 1) Answer **all** questions in Part **A**, **6** out of **8** questions in*
*Part **B**, and **3** out of **5** questions in Part **C**.*
*2) Part **A** : Questions from **1** to **8** carry **1** mark and **9** to **14***
*carry **2** marks **each**.*
*3) Part **B** : **Each** question carries **5** marks.*
*4) Part **C** : **Each** question carries **10** marks.*

### PART – A

1. What is an Editor ?

2. What is an Interpreter ?

3. Explain WORD, RESB.

4. What is a Macro ?

5. What is a Linker ?

6. What is a Modification Record ?

7. What do you mean by a Pure Code ?

8. What is Forward Reference?

9. Explain EQU, TIXR.

10. Explain Relocation.

11. Explain Instruction format of SIC/XE.

12. What is a Grammar ?

13. Explain Parsing.

14. Differentiate between Syntax and Semantic Error.

## PART – B

1. Explain the Architecture of SIC/XE.

2. Explain Header, Text, End records.

3. Explain Absolute Loader.

4. Explain Dynamic Loading.

5. Explain Keyword parameters in Macro instructions.

6. Explain different Data Structures used in Macro expansion.

7. Explain Machine independent Compiler features.

8. Explain Lex and Yacc.

## PART – C

1. Explain Shift reduce parsing.

2. Explain different functions of Loader.

3. Explain Conditional Macro Expansion.

4. Explain the structure of an Editor.

5. Explain One-pass Assembly.

_____