G 1211   (Pages : 2)   Reg. No..................................

                                                      Name....................................

B.TECH. DEGREE EXAMINATION, MAY 2015

Sixth Semester

Branch : Computer Science and Engineering

CS 010 603—SYSTEM SOFTWARE (CS)

(New Scheme—2010 Admission onwards)

[Regular/Improvement/Supplementary]

Time : Three Hours   Maximum : 100 Marks

Part A

Answer **all** *questions.*
Each question carries 3 *marks.*

1. Why do we say that a system program is machine dependent ?

2. Differentiate between Compiler and Interpreter.

3. What is an assembler directive ? Explain with examples.

4. Give the formats of define and refer records.

5. What is dynamic linking ?

                                                      (5 × 3 = 15 marks)

Part B

Answer **all** *questions.*
Each question carries 5 *marks.*

6. Explain conditional macroexpansion with an example.

7. Differentiate between Program blocks and Control sections.

8. What is program relocation ? Explain with examples.

9. Give an overview of editing process.

10. What is a character device ?

                                                      (5 × 5 = 25 marks)

Part C

Answer **all** *questions.*
Each question carries 12 *marks.*

11. Explain the different types of macros.

                           Or

12. Write notes on C preprocessor.

                                                      Turn over

13. Explain Pars1 algorithm for a two pass algorithm specifying the data structures and variables used.

Or

14. Explain multipass assemblers.

15. Write notes on relocating loader.

Or

16. Explain the different loader design options.

17. Explain Text Editors with the help of a diagram.

Or

18. Describe the different debugging methods.

19. Write notes on block devices and block device drivers.

Or

20. What are the different types of device drivers ?

(5 × 12 = 60 marks)