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**Question Paper Code : 31309**

B.E./B.Tech. DEGREE EXAMINATION, NOVEMBER/DECEMBER 2013.

Fifth Semester

Computer Science and Engineering

CS 2304/CS 54/CS 1304 A/10144 CS 505 — SYSTEM SOFTWARE

(Common to Information Technology)

(Regulation 2008/2010)

(Common to PTCS 2304-System Software for B.E. (Part-Time) Fourth Semester-  
CSE- Regulation 2009 )

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. What are data formats of SIC?
2. Mention the use of Test Device instruction.
3. State the function of EQU assembler directives.
4. What do you mean by load and go assembler?
5. Mention the most fundamental function of a loader.
6. What is MS-DOS LINK?
7. What is macro processor?
8. Give examples of actual macro processor.
9. Compare line editor and screen editor.
10. List drawback of menu oriented system.

PART B — (5 × 16 = 80 marks)

11. (a) (i) What are the various registers of SIC? Explain. (6)  
(ii) Explain the data movement and arithmetic operations for SIC. (10)

Or

- (b) Explain the instruction formats and addressing modes of SIC/XE machine. (16)

12. (a) Explain the features of machine-independent assembler. (16)
- Or
- (b) (i) Describe the data structures used in an Assembler. (8)  
(ii) Discuss about the MASM assembler. (8)
13. (a) Explain the machine-dependent loader features. (16)
- Or
- (b) Discuss the loader design options. (16)
14. (a) Describe machine-independent macro processor features. (16)
- Or
- (b) Explain the macro processor design options. (16)
15. (a) Discuss the interactive debugging systems. (16)
- Or
- (b) Explain the structure of a typical editor with a neat diagram. (16)