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Question Paper Code : X 60384

B.E./B.Tech. DEGREE EXAMINATIONS, NOVEMBER/DECEMBER 2020

Fifth Semester

Computer Science and Engineering

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

(Common to Information Technology)

(Regulations 2008/2010)

(Common to PTCS 2304 – System Software for BE (Part-Time)

Fourth Semester – CSE – Regulations 2009)

Time : Three Hours

Maximum : 100 Marks

Answer ALL questions

PART – A

(10×2=20 Marks)

1. What is the difference between System software and Application software ?
2. What is indirect addressing ?
3. State the function of EQU assembler directives.
4. What do you mean by load and go assembler ?
5. What is a bootstrap loader ?
6. What are the advantages of dynamic linking ?
7. Differentiate between a macro and subroutine.
8. How the nested macro calls are executed ?
9. What are the phases in performing editing process ?
10. Define user interface.

**PART – B****(5×16=80 Marks)**

11. a) i) Briefly explain the various registers of SIC. **(6)**
ii) Explain the data movement and arithmetic operations for SIC. **(10)**
(OR)
b) Describe the SIC/XE machine architecture. **(16)**
12. a) i) Explain how the program blocks are assembled. **(8)**
ii) Discuss the functions of two pass assemblers. **(8)**
(OR)
b) Explain the features of machine-independent assembler. **(16)**
13. a) Explain the machine-dependent loader features. **(16)**
(OR)
b) Discuss the loader design options. **(16)**
14. a) Discuss the following in detail with suitable examples :
i) Conditional macro expansion. **(8)**
ii) Generation of unique labels. **(8)**
(OR)
b) Write short notes on the following :
i) Design of macro processor. **(8)**
ii) Keywords parameters. **(8)**
15. a) Explain the text editor in detail. **(16)**
(OR)
b) Discuss in detail about an interactive debugging system. **(16)**
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