

TE/ Com / sem VI / Rev
System program & compiler
(REVISED COURSE) constr

GT-7563

[Total Marks : 100

(3 Hours)

P4-Exam.-Oct.-10-84
Con. 5559-10.

- N.B. :** (1) Question No. 1 is **compulsory**.
(2) Solve any **four** questions out of remaining.
(3) Assume **suitable** data if **necessary**.

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|----|-----|--|----|
| 1. | (a) | What is function of interpreter ? | 5 |
| | (b) | Explain operator precedence parsing. | 5 |
| | (c) | Explain run time storage allocation strategies. | 5 |
| | (d) | Explain the role of finite regular state automata in compiler design. | 5 |
| 2. | (a) | Explain the design of direct linking loader in detail. | 10 |
| | (b) | Explain with suitable flow chart working of single pass assembler. | 10 |
| 3. | (a) | Explain design of one pass macro-processor to handle nested macro calls. | 10 |
| | (b) | Explain difference between :- | 10 |
| | | (i) Procedure calls and macro calls | |
| | | (ii) Linker and Loaders. | |
| 4. | (a) | Explain difference between JAVA compiler and YACC compiler. | 10 |
| | (b) | Explain difference between linkage editor and linkage loader. | 10 |
| 5. | (a) | Explain various form of the intermediate code used by compiler. | 10 |
| | (b) | What is source of optimization ? | 5 |
| | (c) | Explain role of lexical analyzer. | 5 |
| 6. | (a) | Explain different phases of compiler in details. | 10 |
| | (b) | Explain management of variable length block and storage allocation strategies. | 10 |
| 7. | | Short notes on :- | 20 |
| | (a) | Implementation of three address statement | |
| | (b) | Storage allocation strategies | |
| | (c) | YACC | |
| | (d) | SPARC assembler. | |