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SPCC Theory Questions – Shoeb

2ND Module

1. Explain Analysis and Synthesis Phase of Assembler with example
2. Explain Pass 1 Flowchart step-by-step
3. Explain Pass 2 Flowchart step-by-step
4. Explain the data structures used in TPASM with simple examples.
5. Explain different types of statements used in assemblers with respect to system programming (for 5 marks).
6. Explain in brief Forward Reference Problem, explain how TII handles Forward Reference Problem in Single Pass Assembler

3RD Module

7. What is microprocessor in SPCC with a small example?
8. Features of Macros?

4TH Module

9. **Explain me this in simple English so I can write it in my theory paper:**
 - Compile and Go Loader
 - Absolute Loader
 - Relocating Loader
 - Direct Linking Loader
 - Dynamic Loading Loader
 - Dynamic Linking Loader

10. Explain Direct Linking Loader in suitable example. It is asked for 10 marks.
11. Discuss the databases used in Direct Linking Loader.

5TH Module

12. Bottom-up vs Top-down parsing. (10 points)
13. Explain the role of CFG.
14. Role of Context Free Grammar in Syntax Analysis.

6TH Module

15. Write a short note on types of intermediate code.
16. What are the various statements used in 3-address code?
17. Give me 3 easy statements used in 3-address code.
18. Explain code optimization techniques: Machine Dependent and Machine Independent.
19. Explain different issues in code generation phase of compiler (10 marks).