Mumbai Education Trust's INSTITUTE OF ENGINEERING, BKC, NASHIK. DEPARTMENT OF COMPUTER ENGINEERING

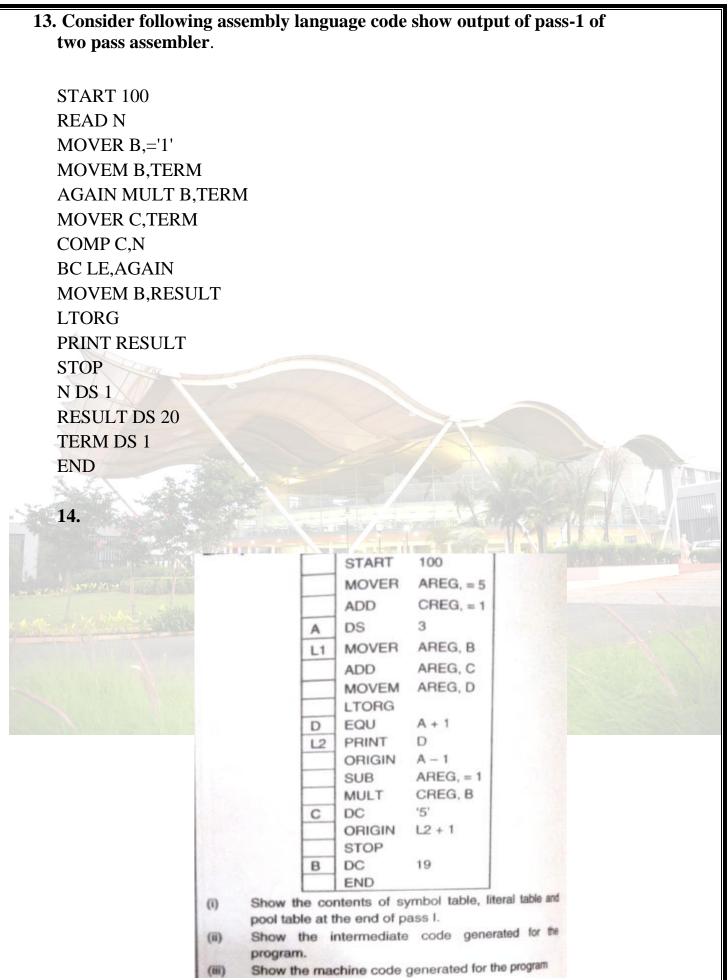
Subject : SPOSASSIGNMENT NO - 01Unit : I

- Define system programming & explain its all tool in details.
 i) Assembler ii) Loader iii) Editor iv) Linker v) Debugger etc.
- 2. What is the **need of symbol table (ST) and literal table (LT)** in two pass assembler?

Explain fields of ST and LT with suitable example.

- 3. Explain the different assembly language statement with examples.
- 4. Define Assembler Directive. Explain ORIGIN, EQU & LTORG with example.
- 5. What is **forward reference**? How it is handled in single pass assembler?
- 6. Explain Macro and its advantages & how they are different from function.
- 7. Explain the machine structure in details. (structure of CPU)
- 8. Difference between Literal & Immediate operand (Constant). How assembler handle them? Give example.
- 9. Enlist different types of error handled by PASS- I & II assembler.
- 10. Draw and explain Algorithm & flowchart of Pass-2 of two pass assembler.
- 11.Draw and explain Algorithm & flowchart of Pass-I of two pass assembler.
- 12. What are the databases(Data Structure) used by pass-1 and pass-2 of assembler.

Explain them with their format.



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