SPOS INSEM IMPORTANT

a) Draw and explain flowchart of Pass-I of two pass assembler with suitable example.

b) Differentiate between literal and immediate operand.

c) Explain algorithm of pass 1 of two pass assembler.

d) Define macro. What are the advantages of macro facility? How they are different from function.

e) Write Short note on i) Compiler ii) Interpreter iii) Assembler

f) Explain the output of pass-I of two pass Assembler with respect to the given program:

I) START 600

READ A

READ B

LOOP MOVER AREG, A

MOVER CREG, B

SUB AREG,='1'

BC GT,LOOP

STOP

A DS 1

B DS 2

END

ii) PROG START 50

USING PROG+2, 15

BACKLOG ENGINEERS

© Backlog Engineers | All Rights Reserved

```
L1, FIVE
Al, = F '2'
 LTORG
 ST 1, RES
FIVE DC F '4'
RES DS F '4'
RES DS IF
END
```

g) What is Macro? Explain Macro definition, Macro Call and Macro Expansion with an example and Advantage macro facility

h) What are different data structures required for Two Pass Macro Processor? Justify which data structures are implemented at that time of processing Macro definition, Macro call and Macro Expansion

i) Explain the Phases of Compiler and their output with an example.

j) Explain the concept of single pass Macro processor with example. Give example for macro calls within the macro.

BACKLOG ENGINEERS

© Backlog Engineers | All Rights Reserved