

Vijaya College

R.V Road, Basavanagudi

VI SEM BCA Model Question Paper 2

BCA 602: System Programming

SECTION – A

I. Answer any ten questions. Each question carries two marks 10x2=20

1. What is LTORG?
2. List any 4 assembler directives.
3. List any two advantages of assembly language.
4. What is Declaration Statement? Give example.
5. Mention any two disadvantages of Radix sort.
6. Differentiate between macro and subroutine
7. Define Macro definition table.
8. Write the four basic task that can be performed by macro-instruction processor.
9. What are the functions of the loader?
10. Define Relocation factor.
11. What is intermediate form?
12. What is a token? Give example.

SECTION – B

II. Answer any five questions. Each question carries five marks 5x5=25

13. Explain the general machine structures with neat diagram.
14. What is sorting? Explain briefly about Bubble sort.
15. Explain databases used in Pass 1 and Pass 2 assemblers.
16. Explain the features of macro facility in detail.
17. Explain macro instructions defining macros.
18. Explain compile-and-go loader with a neat diagram.
19. Define binder. What are the classes of binders? Explain.
20. What are the functions of analysis and synthesis phases of the compiler?

SECTION – C

III. Answer any three questions. Each question carries fifteen marks 3x15=45

21. a) Explain various instruction formats used in IBM 360.
b) Explain the use of literals in assembly language programs using example.
22. a) Draw the detailed Pass 2 flowchart of an assembler.

- b) What is an assembler directive? Explain any five assembler directives with an example.
- 23. a) Give the database specifications for Pass 1 Pass 2 of macro processor.
b) Explain the four basic tasks of macroprocessor.
- 24. a) Explain design of absolute loader with a neat diagram.
b) Explain the overlay structures for linking.
- 25. a) Explain structure of compiler with a diagram.
b) Explain identifier table for the phases of compiler.

SECTION – D

IV. Answer any one question. Each question carries 10 marks

1x10=10

26.

- a) Differentiate between Pseudo-op and machine-op with example
- b) Draw the micro-flow chart for ADD instruction.

27.

- a) Explain Relocatable, Non-relocatable and self relocatable programs.
- b) Explain the use of EXTERN and ENTRY statements.