

ST. JOSEPH'S EVENING COLLEGE (AUTONOMOUS)

IV SEMESTER BCA EXAMINATIONS - APRIL 2019

SYSTEM PROGRAMMING

Duration: 2.5 Hours

Max. Marks: 70

SECTION - A

I) Answer any SIX of the following questions. (6x3=18)

1. What is System Programming? Give an example.
2. What are formal systems? Briefly explain.
3. What are loaders? Give any two types of loaders.
4. Expand MNT, MDT, MDTC, MNTC
5. What is Assembler? Give an advantage of it.
6. Differentiate between macros and subroutines.
7. Briefly explain about Binary Search.
8. What is compile time and load time.

SECTION - B

II) Answer any FOUR of the following questions. (4x8=32)

9. Explain the basic components of system software.
10. Explain about dynamic loading with suitable diagram.
11. Sort the numbers 55,23,46,89,33 using bucket sort method.
12. Write an algorithm for pass1 processing macro definition.
13. Explain the functions of an assembler.
14. What are the functions of analysis and synthesis phases of compiler?

SECTION - C

III) Answer any TWO of the following questions. (2x10=20)

15. Explain General machine structure with a neat diagram.
16. Explain the databases used by pass 1 and pass 2 assembler.
17. Explain two pass macro processor algorithm with flowcharts for pass 1 and pass 2.
18. What is compiler? Explain the structure of compiler with a neat diagram.