

Question Bank (G scheme)

Name of subject: SYSTEM PROGRAMMING

Unit Test :I

Subject code: 17517

Course : CM

Semester: V

CHAPTER1: Introduction to System Programming (10 Marks)

3 Marks

1. List various applications of system software.
2. Distinguish between multiprogramming and multiprocessing.
3. Explain the foundation of system programming.

4 Marks

4. What is system software ? List three types of system software.
5. Define the term Compiler, Assembler, Loader, Macros.
6. Explain components of System Software with examples.

CHAPTER 2: Assembler (24 Marks)

3 Marks

7. Explain shell sort with example.
8. Explain the data base used by the first pass of assembler.
9. List assembler design steps for pass 1 and pass 2.
10. Draw the flowchart of pass 1 assembler.
11. State the Advantages of assembler

4 Marks

12. Explain the working of bucket sort.
13. Explain how insertion sort works with suitable example.
14. Explain the concept of assembler.
15. Explain address calculation of sort and comparisons of sort.
16. Explain use of following instruction:
 - 1) START
 - 2) DC
 - 3) DS
17. List and give syntax of database tables used in lexical analysis phase of compiler.
18. Explain role of location counter of pass 1 assembler.

CHAPTER 3: Macro language and macro processors (12 Marks)

3 Marks

19. State use of macro with suitable examples.
20. State difference between macro processor and macro assembler.
21. List and explain basic four operations of macro processor.

4 Marks

22. Describe conditional macro expansion with suitable example.
23. Explain macro definition with example and different way in which we can specify the arguments to the macro call.
24. Explain macro instruction arguments with positional and keyword parameters.
25. Explain implementation of macro calls within macros.