SUBJECT: SYSTEM SOFTWARE
QUESTION BANK

Q.1	What is a Language Processor?
Q.2	Explain Language Processing activities in brief.
Q.3	Explain Life Cycle of a Source Program.
Q.4	Write a short note on Text Editors and its types.
Q.5	What are phases and passes? Compare and contrast.
Q.6	Draw diagram and explain the analysis phase of a Language Processor.
Q.7	Briefly explain IR with an example.
Q.8	Draw diagram and explain the synthesis phase of a Language Processor.
Q.9	Write a Short note on the Symbol Table.
Q.10	What are the different data structures used for symbol table? List them and explain it briefly.
Q.11	Draw a diagram and explain the working of a toy compiler.
Q.12	Write a short note on Program execution activities.
Q.13	What is the role of the program generator domain?
Q.14	What are the different operations provided by the symbol table?
Q.15	Explain Sequential search organization using an example.
Q.16	What are self organizing lists?
Q.17	How is a token searched in search trees? Explain with an example.
Q.18	How does hashing work?
Q.19	What are the allocation data structures used for?
Q.20	Compare and contrast Stack and Heap.
Q.21	What are the characteristics of a system software?

Q.22	What is assembler and assembly language? Give its advantages.
Q.23	What are the basic functionalities provided by an Assembler.
Q.24	What are the types of Assembler?
Q.25	Explain the elements of Assembly code and types of statements.
Q.26	Explain the design of a Two pass assembler
Q.27	How does Single pass assembler work?
Q.28	Define Forward reference and it can be solved.
Q.29	Briefly discuss backpatching.
Q.30	What are the different tables used in Two pass assembler.
Q.31	What are the different ways to write intermediate code?
Q.32	Explain Assembler directives.