Time Allowed—2 Hours]　　　　[Maximum Marks—75

Note :— There are **Eight** questions of equal marks. Candidates are required to attempt any **Four** questions.

1. What does System Software do ? Which are different types of System Software ? Discuss various components of system software with the help of a suitable example.

2. What is job of a translator ? Which are different types of translators ? How do they differ ?

3. Discuss various phases of a one pass and two pass assemblers.

4. What is use of macros ? What is meant by macro expansion? What is need of conditional macro expansion ? Give an example.

5. Discuss various phases of a compiler design.

6. What is the difference between Incremental compiler and Cross compiler ?

7. What are basic functions of a loader ? What is the difference between Linker and Loader ?

8. Explain the following :

    (a) Dynamic Linking

    (b) Bootstrap Loader.