

*St. Joseph's college of engineering*

*St. Joseph's institute of technology*

*Department of CSE/IT*

**Assignment-I**

**CS6660-Compiler Design**

Part-A

1. *Define Compiler*
2. *What are the phases of a compiler? Draw the diagram of the language processing system.*
3. *Mention few cousins of the compiler?*
4. *What is front-end and back-end of the compiler?*
5. *List of some compiler construction tools.*
6. *What is cross compiler?*
7. *What is Symbol Table*
8. *Difference between Assembler, Compiler and Interpreter.*

Part-B

1. *Explain the various phases of a compiler in detail. Also write down the output for the following expression after each phase  $a := b * c - d$ .*
2. *Write in detail about the analysis cousins of the compiler.*
3. *Describe how various phases could be combined as a pass in a compiler? Also briefly explain Compiler construction tools .*
4. (i) *What is difference between a phase and pass of a compiler? Explain machine dependent and machine independent phase of compiler.(8)*  
(ii) *Describe the following software tools i. Structure Editors ii. Pretty printers iii. Interpreters (8)*