



DG-3183

Third Year B. Sc. (Computer Science) (Sem. V)  
Examination

March/April – 2016

Paper - 507 - 3 : System Software  
(General Elective-IDS)

Time : 3 Hours]

[Total Marks : 70

Instruction :

नीचे दृश्यावेक निशानीवाणी विगतो उत्तरवही पर अवश्य कभवी. Fillup strictly the details of signs on your answer book.	Seat No. :
Name of the Examination :	<input type="text"/>
Third Year B. Sc. (Computer Science) (Sem. V)	<input type="text"/>
Name of the Subject :	<input type="text"/>
Paper - 507 - 3 : System Software	<input type="text"/>
Subject Code No. : 3 1 8 3	Section No. (1, 2,.....) : Nil
Student's Signature	

- Q.1. Answer the following questions. 14**
- (viii) Define: semantic gap.  
(ix) Define language processor.  
(x) What is assembler?  
(xi) What is symbolic operand?  
(xii) Define: program relocation.  
(xiii) Define: absolute loader.  
(xiv) What is linking?
- Q.2.(a) Explain various classifications of grammars. 7**  
**(b) Explain Lexical analysis scanning in detail 7**  
**OR**
- Q.2.(a) Discuss ambiguity in grammatical specification and how it can be eliminated. 7**  
**(b) What are the advantages of assembly language? 7**
- Q.3.(a) Explain the design of two pass assembler. 7**  
**(b) Explain steps for designing a linker 7**  
**OR**
- Q.3.(b) Explain the importance of single pass assembler. 7**
- Q.4.(a) Write a note on compilation of expression 7**  
**OR**
- Q.4.(a) Write a note on lexical analysis and syntactic analysis. 7**  
**(b) Explain memory allocation in detail. 7**
- Q.5. Write a note on the following.(Any two) 14**
1. Code generation
  2. Relocation and linking concepts
  3. Interpreter