

Compiler Design

Chapter No.	Winter 2016	Summer 2017
Chapter 1	01 Marks	07 Marks
Chapter 2	17 Marks	07 Marks
Chapter 3	51 Marks	42 Marks
Chapter 4	07 Marks	-
Chapter 5	07 Marks	14 Marks
Chapter 6	14 Marks	14 Marks
Chapter 7	07 Marks	-
Chapter 8	15 Marks	28 Marks
Repeated Questions	-	-

Winter 2016

Chapter 1 : Introduction to Compiler [Total Mark - 01]

Q. 1(a)(5) Define Compiler.

(1 Mark)

Ans. : **Compiler :**

Compiler is a program, which converts a source program (written in high level language) in an object program (may be any low level form either assembly or machine code). A computer understands only binary language. But writing programs in 1's and 0's is not possible. So we write programs in high level language. This program written in high level language should be converted to binary so that it could be executed. The conversion of a source program to a target program is called compilation of the program. This task of conversion is done by compiler / translator.

Chapter 2 : Lexical Analyzer [Total Marks - 17]

Q. 1(a)(1) Define Token.

(1 Mark)

Ans. : **Tokens :** Classes or category of similar lexemes such as identifier, number, constant, operator etc.

Q. 1(a)(2) Define Pattern.

(1 Mark)

Ans. : **Pattern :** Formal or informal description of a token such as an identifier can have at most 8 characters in which first character must be an alphabet and the successive characters can be either digits or alphabets. Pattern is rule that describes a token.

Q. 1(a)(3) Define Lexeme.

(1 Mark)

Ans. : **Lexemes :** Smallest logical units (words) from a program such as main, int, A, B, 10, if, + etc.

Q. 2(a) Write a short note on Input Buffering methods.

(7 Marks)

Ans. : **Input Buffering methods :**

Lexical analyzer reads the source program character by character from the secondary storage but it is costly, therefore, a block of data is first read into a buffer and then scanned by the lexical analyzer.

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web mar 11 2014 solution ionic equation $\text{H}^+ \text{aq} + \text{Cl}^- \text{aq} + \text{Na}^+ \text{aq} + \text{HCO}_3^- \text{aq} \rightarrow \text{Na}^+ \text{aq} + \text{Cl}^- \text{aq} + \text{H}_2\text{O} \text{l} + \text{CO}_2 \text{g}$ the spectator ions are Cl^- and Na^+ net ionic equation $\text{H}^+ \text{aq} + \text{HCO}_3^- \text{aq} \rightarrow \text{H}_2\text{O} \text{l} + \text{CO}_2 \text{g}$ here is a video on spectator ions *chapter 8 04 ionic equations chemistry libretexts* - Mar 06 2023

web the six $\text{NO}_3^- \text{aq}$ ions and the six $\text{Na}^+ \text{aq}$ ions that appear on both sides of the equation are spectator ions that can be canceled to give the net ionic equation $3\text{Ba}^{2+} \text{aq} + 2\text{PO}_4^{3-} \text{aq} \rightarrow \text{Ba}_3(\text{PO}_4)_2 \text{s}$

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changed by the process and so they may be eliminated from the equation to yield a more succinct representation called a **practice problems on net ionic equations chem kmacgill com** - Sep 12 2023

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