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NPTEL (https://swayam.gov.in/explorer?ncCode=NPTEL) » Compiler Design (course)



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## Course outline

About NPTEL ()

How does an NPTEL online course work? ()

Week 0: ()

Week 1 ()

Week 2 ()

Week 3 ()

Week 4 ()

## Week 4: Assignment 4

The due date for submitting this assignment has passed.

Due on 2025-02-19, 23:59 IST.

## Assignment submitted on 2025-02-15, 11:46 IST

Words of a language constitute

1 point

- a) Set of terminals
- b) Set of non terminals
- c) Set of both terminals and non terminals
- d) None of the other options
- A
- $\bigcirc$  B
- $\bigcirc$  C

Yes, the answer is correct.

Score: 1

Accepted Answers:

Α

The grammar {E → E + E | E \* E | id} is

1 point

- a) Ambiguous
- b) Unambiguous
- c) Partially ambiguous
- d) None of the other options
- $\bigcirc$  A
- $\bigcirc$  B

Lecture 17 : Parser (Contd.) (unit? unit=46&lesso n=47)	B C Yes, the answer is correct. Score: 1 Accepted Answers:	
Lecture 18 : Parser (Contd.) (unit? unit=46&lesso n=48) Lecture 19 :	Which of the following are always unambiguous  1 point  a) Producing one left-most and one right-most derivation b) Producing one left-most but may be multiple right-most	
Parser (Contd.) (unit? unit=46&lesso n=49)	<ul> <li>c) Producing one right-most but may be multiple left-most</li> <li>d) None of the other options</li> </ul>	
Lecture 20 : Parser (Contd.) (unit? unit=46&lesso n=50)	B C D Yes, the answer is correct. Score: 1	
Lecture 21 : Parser (Contd.) (unit? unit=46&lesso n=51)	Accepted Answers:  A  4) A language that admits only ambiguous grammar:  1 point	
Lecture Materials (unit? unit=46&lesso n=52)	a) Inherent Ambiguous language b) Inherent Unambiguous language c) Context free language d) Context Sensitive language	
Feedback Form (unit? unit=46&lesso n=53)	<ul><li>♠ A</li><li>♠ B</li><li>♠ C</li><li>♠ D</li></ul>	
Week 04 : Assignment Solution (unit? unit=46&lesso n=164)	Yes, the answer is correct. Score: 1 Accepted Answers: A	
<ul><li>Quiz: Week 4</li><li>: Assignment 4</li><li>(assessment? name=184)</li></ul>	5)   A grammar with production rules { A $\rightarrow$ Ba   Cb, B $\rightarrow$ CA, C $\rightarrow$ c   $\epsilon$ } contains  a) Left factor	
Week 5 ()	b) Left recursion c) Both left factor and left recursion	
Week 6 ()	d) None of the other options  A	
Week 7 ()		

Week 8 ()	○ <b>c</b>	
	O D	
Week 9 ()	Yes, the answer is correct. Score: 1	
Week 10 ()	Accepted Answers:	
Week 11 ()	6) For the grammar rules $\{S \rightarrow Aa \mid bB, A \rightarrow c \mid \epsilon\}$ , FIRST(S) is	1 point
Week 12 ()	a) {b, c}	
DOWNLOAD VIDEOS ()	b) {a, b} c) {a,b, c} d) {a,b, c,ε}	
Text Transcripts	О A О В	
0	© C	
Books ()	O D	
u	Yes, the answer is correct.	
	Score: 1	
	Accepted Answers:	
	7) The grammar $\{E \rightarrow E + T \mid T, T \rightarrow T * F \mid F, F \rightarrow id\}$ is	1 point
	a) Ambiguous	
	b) Unambiguous	
	c) Partially ambiguous d) None of the other options	
	○ A	
	○ <b>c</b>	
	O D	
	Yes, the answer is correct.	
	Score: 1 Accepted Answers:	
	В	
	8) Derivation produced by a top-down parser is	1 point
	a) Leftmost	
	b) Rightmost	
	<ul> <li>c) Either leftmost and rightmost</li> <li>d) None of the other options</li> </ul>	
	ОВ	
	$\circ$ C	

O D	
Yes, the answer is correct. Score: 1	
Accepted Answers: A	
9) For top-down parsing left recursion removal is	1 point
<ul><li>a) Mandatory</li><li>b) Desirable</li><li>c) Too complex</li><li>d) Not needed</li></ul>	
A	
ОВ	
ОС	
○ D	
Yes, the answer is correct. Score: 1	
Accepted Answers:	
A	
<sup>10)</sup> A grammar is ambiguous if	1 point
<ul> <li>a) It's left most and right most derivations are different</li> <li>b) More than one left most derivations exist</li> <li>c) There is no left most derivation</li> <li>d) There is no rightmost derivation</li> </ul>	
ΘA	
ОС	
○ <b>D</b>	
Yes, the answer is correct. Score: 1	
Accepted Answers: B	
11) A predictive parser  (A) Needs backtracking  (B) Does not need backtracking  (C) May not terminate  (D) None of the other options	0 points
A	
В	
○ <b>c</b>	
○ D	

Yes, the answer is correct. Score: 0

Accepted Answers: