X

![swayam](https://swayam.gov.in)

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

≡

Course outline

Week 5 : Assignment 5

The due date for submitting this assignment has passed.

Due on 2025-02-26, 23:59 IST.

Assignment submitted on 2025-02-15, 23:00 IST

1)   *1 point*

In shift-reduce parsing, handle is at

a) Top of the stack
b) bottom of the stack
c) Anywhere in the stack
d) Nowhere in the stack

○ a
○ b
○ c
○ d

Yes, the answer is correct.
Score: 1
Accepted Answers:
a

2)   *1 point*

Which of the following conflicts is not possible in shift-reduce parsing

a) Reduce-reduce conflict
b) Shift-reduce conflict
c) Shift-shift conflict
d) None of the other options

○ a

○ b
◉ c
○ d

Yes, the answer is correct.
Score: 1
Accepted Answers:
c

3)   *1 point*

Which one of the following is true at any valid state in shift-reduce parsing

    a) At the bottom we find the prefixes
    b) None of the mentioned
    c) Stack contains only viable prefixes
    d) Stack consists of viable prefixes

○ a
○ b
◉ c
○ d

Yes, the answer is correct.
Score: 1
Accepted Answers:
c

4)   For the grammar   *1 point*
         $S \rightarrow AB \mid C$
         $A \rightarrow bA \mid a$
         $B \rightarrow abbS \mid bS \mid \varepsilon$
         $C \rightarrow bC \mid \varepsilon$
   Follow(A) is

    a) a, $
    b) a , b , $
    c) a, b
    d) b , $

○ a
◉ b
○ c
○ d

Yes, the answer is correct.
Score: 1
Accepted Answers:
b

5) Shift reduce parsers are   *1 point*

    a) Top down Parser
    b) Bottom up Parser
    c) May be top down or bottom up
    d) None of the mentioned

○ a
◉ b
○ c
○ d

Yes, the answer is correct.
Score: 1
Accepted Answers:
b

6) Shift reduce parsers are   *0 points*

    a) Top down Parser
    b) Bottom up Parser
    c) May be top down or bottom up
    d) None of the mentioned

○ a
◉ b
○ c
○ d

No, the answer is incorrect.
Score: 0
Accepted Answers:
a

7) In Operator Precedence parsing handle is   *1 point*

    a) Before <·
    b) After ·>
    c) Between <· and ·>
    d) None of the other options

○ a
○ b
◉ c
○ d

Yes, the answer is correct.
Score: 1
Accepted Answers:
c

8)   *1 point*

By considering the rule B → abbS, which of the precedence relations between a and b can be inferred?

      (A) $a \doteq b$ only

      (B) $a \doteq b$ and $b \doteq b$

      (C) $b \doteq a$ and $a \doteq b$

      (D) $b \doteq a$ and $b \doteq b$

- ( ) a
- (●) b
- ( ) c
- ( ) d

Yes, the answer is correct.
Score: 1

Accepted Answers:
b

9) An operator-precedence parser is a   *1 point*

    a) Shift-reduce parser
    b) Bottom-up parser
    c) Parser constructing derivation in the reverse
    d) All the other options

- ( ) a
- ( ) b
- ( ) c
- (●) d

Yes, the answer is correct.
Score: 1

Accepted Answers:
d

10) Bottom up parsing involves   *1 point*

    a) Shift reduce
    b) Handle pruning
    c) None of the mentioned
    d) Both shift reduce and handle pruning

- ( ) a
- ( ) b
- ( ) c
- (●) d

Yes, the answer is correct.

Score: 1

Accepted Answers:

d