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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 5 ()

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) In shift-reduce parsing, handle is at 1 point

- 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) Which of the following conflicts is not possible in shift-reduce parsing 1 point

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

- ☐ a

☐ Lecture 22 :
Parser
(Contd.) (unit?
unit=55&lesso
n=56)

☐ Lecture 23 :
Parser
(Contd.) (unit?
unit=55&lesso
n=57)

☐ Lecture 24 :
Parser
(Contd.) (unit?
unit=55&lesso
n=58)

☐ Lecture 25 :
Parser
(Contd.) (unit?
unit=55&lesso
n=59)

☐ Lecture 26 :
Parser
(Contd.) (unit?
unit=55&lesso
n=60)

☐ Lecture
Materials
(unit?
unit=55&lesso
n=61)

☐ Feedback
Form (unit?
unit=55&lesso
n=62)

☐ Week 05 :
Assignment
Solution (unit?
unit=55&lesso
n=167)

☒ **Quiz: Week 5
: Assignment
5
(assessment?
name=186)**

Week 6 ()

Week 7 ()

Week 8 ()

- ☐ 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)

1 point

For the grammar

$S \rightarrow AB \mid C$

$A \rightarrow bA \mid a$

$B \rightarrow abbS \mid bS \mid \varepsilon$

$C \rightarrow bC \mid \varepsilon$

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

Week 9 ()**Week 10 ()****Week 11 ()****Week 12 ()****DOWNLOAD
VIDEOS ()****Text
Transcripts
()****Books ()**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 $<\cdot$
- b) After $\cdot>$
- c) Between $<\cdot$ and $\cdot>$
- 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 $B \rightarrow abbS$, 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