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Course outline

About
NPTEL ()

How does an
NPTEL
online
course
work? ()

Week 0 : ()

Week 1 ()

Week 2 ()

- ☐ Lecture 07 :
Lexical
Analysis (unit?
unit=28&lesso
n=29)

Week 2 : Assignment 2

The due date for submitting this assignment has passed.

Due on 2025-02-05, 23:59 IST.

Assignment submitted on 2025-02-05, 23:15 IST

1) A regular expression represents

1 point

- a) Part of a language
- b) Cannot represent any language
- c) Constituent strings of a language
- d) None of the other options

- ☐ a
☐ b
☒ c
☐ d

Yes, the answer is correct.
Score: 1

Accepted Answers:
c

2)

1 point

☐ Lecture 08 :
Lexical
Analysis
(Contd.) (unit?
unit=28&less
n=30)

☐ Lecture 09 :
Lexical
Analysis
(Contd.) (unit?
unit=28&less
n=31)

☐ Lecture 10 :
Lexical
Analysis
(Contd.) (unit?
unit=28&less
n=32)

☐ Lecture 11 :
Lexical
Analysis
(Contd.) (unit?
unit=28&less
n=33)

☐ Lecture
Materials
(unit?
unit=28&less
n=34)

☐ Feedback
Form (unit?
unit=28&less
n=35)

☐ Week 02 :
Assignment
Solution (unit?
unit=28&less
n=160)

☒ **Quiz: Week 2
: Assignment
2
(assessment?
name=182)**

Week 3 ()

Week 4 ()

Week 5 ()

Week 6 ()

When expression $\text{sum}=3+2$ is tokenized then what is the token category of 3

- a) Identifier
- b) Assignment operator
- c) Integer literal
- d) Addition operator

- ☐ a
- ☐ b
- ☒ c
- ☐ d

Yes, the answer is correct.

Score: 1

Accepted Answers:

c

3)

1 point

For the Fortran language statement "DO 5 I = 1.25" returns token IDENTIFIER for DO 5 I after looking upto

- a) I
- b) =
- c) .
- d) 5

- ☐ a
- ☐ b
- ☒ c
- ☐ d

Yes, the answer is correct.

Score: 1

Accepted Answers:

c

4)

Which of the following are Lexemes?

1 point

- a) Identifiers
- b) Constants
- c) Keywords
- d) All of the mentioned

- ☐ a
- ☐ b
- ☐ c
- ☒ d

Yes, the answer is correct.

Score: 1

Accepted Answers:

d

Week 7 ()**Week 8 ()****Week 9 ()****Week 10 ()****Week 11 ()****Week 12 ()****DOWNLOAD
VIDEOS ()****Text
Transcripts
()****Books ()**

5)

1 point

A regular expression for accepting strings with exactly one 1 more than 0's is

- a) 0^*1
- b) $(0|1)^*1(0|1)^*$
- c) $(0|1)^*1(0|1)^*|1(0|1)^*$
- d) Not Possible

- ☐ a
- ☐ b
- ☐ c
- ☒ d

Yes, the answer is correct.

Score: 1

Accepted Answers:

d

6)

1 pointWhich one of the following languages over the alphabet $\{0,1\}$ is described by the regular expression: $(0+1)^*0(0+1)^*0(0+1)^*$

- a) The set of all strings containing the substring 00.
- b) The set of all strings containing at most two 0's.
- c) The set of all strings containing at least two 0's.
- d) The set of all strings that begin and end with either 0 or 1.

- ☐ a
- ☐ b
- ☒ c
- ☐ d

Yes, the answer is correct.

Score: 1

Accepted Answers:

c

7)

1 point

Finite automata is an implementation of

- a) Regular expression
- b) Any grammar
- c) Part of the regular expression
- d) None of the other options

- ☒ a
- ☐ b
- ☐ c
- ☐ d

Yes, the answer is correct.

Score: 1

Accepted Answers:

a

8)

1 point

The automation which allows transformation to a new state without consuming any input symbols:

- a) NFA
- b) DFA
- c) Pushdown automata
- d) All of the mentioned

- ☒ a
- ☐ b
- ☐ c
- ☐ d

Yes, the answer is correct.

Score: 1

Accepted Answers:

a

9)

1 point

The _____ of a set of states, P, of an NFA is defined as the set of states reachable from any state in P following ϵ -transitions

- a) ϵ -closure
- b) ϵ -park
- c) Q in the tuple
- d) None of the mentioned

- ☒ a
- ☐ b
- ☐ c
- ☐ d

Yes, the answer is correct.

Score: 1

Accepted Answers:

a

10) Between NFA and DFA which one is powerful

1 point

- a) NFA
- b) DFA
- c) Equally powerful
- d) Cannot be said definitely

- ☐ a
- ☐ b

- ☒ c
☐ d

Yes, the answer is correct.

Score: 1

Accepted Answers:

c

11) Subset Construction method refers to

1 point

- a) Conversion of NFA to DFA
- b) DFA minimization
- c) Eliminating null references
- d) ϵ -NFA to NFA

- ☒ a
☐ b
☐ c
☐ d

Yes, the answer is correct.

Score: 1

Accepted Answers:

a

12)

1 point

Which of the following do we use to form an NFA from a regular expression

- a) Subset construction method
- b) Powerful set construction method
- c) Thompson construction method
- d) Scott construction method

- ☐ a
☐ b
☒ c
☐ d

Yes, the answer is correct.

Score: 1

Accepted Answers:

c

13)

1 point

A certain compiler corrects errors like “fi” to “if” automatically. This is an example of recovery in

- a) Panic mode
- b) Delete character
- c) Replace Character
- d) Transpose character

- ☐ a
- ☐ b
- ☐ c
- ☒ d

Yes, the answer is correct.

Score: 1

Accepted Answers:

d