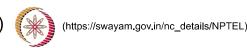




(https://swayam.gov.in)



manish.19230@knit.ac.in >

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



Register for Certification exam

Thank you for taking the Week 8: (https://examform.nptel.ac.in/2022_04/exam_form/dashssignment 8.

Course outline

> How does an **NPTEL** online course work? ()

Pre-requisite **Assignment** ()

Week 1 ()

Week 2 ()

Week 3 ()

Week 4 ()

Week 5 ()

Week 6 ()

Week 7 ()

Week 8 ()

Syntax-Based Testing (unit? unit=66&lesson=67)

Week 8 : Assignment 8

Your last recorded submission was on 2022-09-21, 18:48 Due date: 2022-09-21, 23:59 IST. IST

1) Consider the regular expression $(a+b)\cdot (a+b)*$ over the alphabet $\Sigma=\{a,b\}$. **1 point** Which of the following options represents a list of words generated by this regular expression?

ab, a, aab.

abab, babab.

aaa, bbb.

All of the above.

2) For the same regular expression $(a+b)\cdot (a+b)*$, which of the following options **1 point** represents the language corresponding to the regular expression?

The language is the set of all words over a and b that have at least one a and at least one bin them.

The language is the set of all words over a and b that have at least one a or at least one b in them.

3) While parsing a program to extract syntactic information, which of the following 1 point defines how characters form tokens?

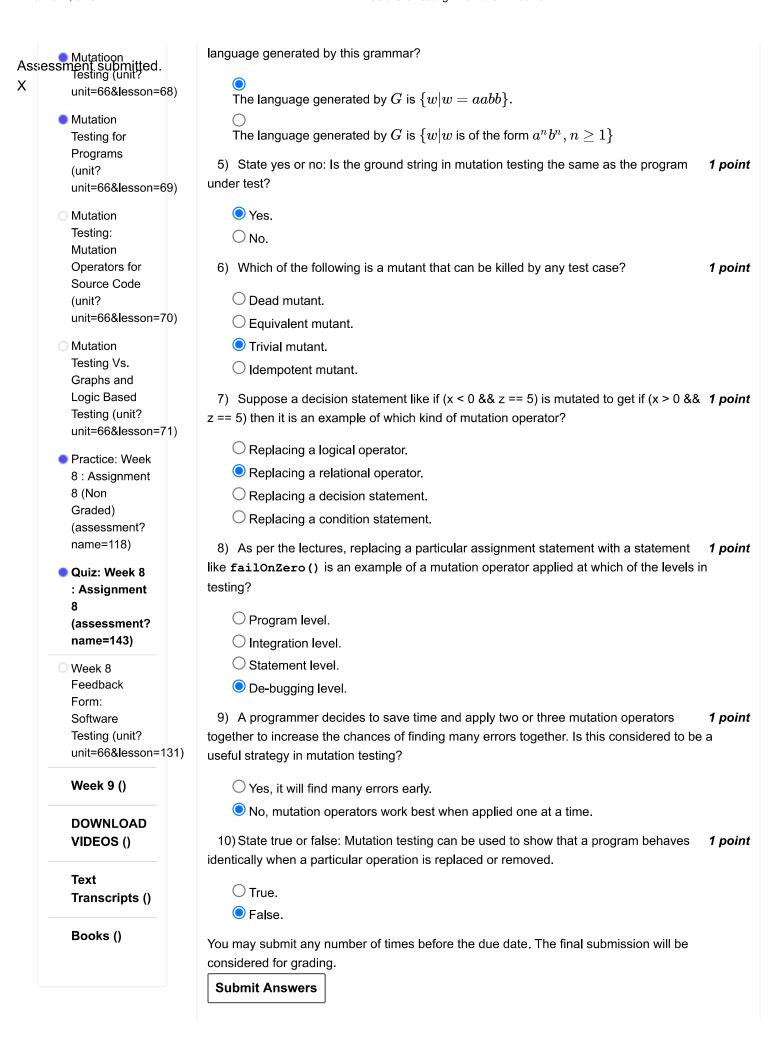
Regular expressions.

O Context-free grammars.

O Context-sensitive grammars.

O The normal form of the grammar.

4) Consider the context-free grammar given by G = (N, T, P, S) where 1 point $N=\{S,X\}, T=\{a,b\}, P=\{S
ightarrow aXb, X
ightarrow ab\}$. Which of the following is the



Assessment submitted.

Χ