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

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## 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 6 -  
Assignment

# Week 7 : Assignment 7

Your last recorded submission was on 2022-09-14, 15:45 Due date: 2022-09-14, 23:59 IST. IST

For the first five questions, consider the following set of requirements for a college job placement process. If the CGPA is  $\geq 8$  (out of 10), then the students are eligible for companies that offer salaries  $\geq$  INR 20,00,000/= per annum. If the CGPA is between 6 and 8 then they are eligible for companies that offer salaries less than INR 20,00,000/= per annum. If there aren't any companies with salary offers  $\geq$  INR 20,00,000/= per annum in a particular period, then those with CGPA  $\geq 8$  will also appear in the companies in the lower salary categories. Those with less than 6 CGPA will not be assisted by the college placement office for their placements. Answer the following questions related to equivalence partitioning based testing of these requirements.

- 1) How many partitions will be there for the input CGPA if we consider only valid inputs? **1 point**
  - ☒ Three partitions.
  - ☐ Five partitions.
- 2) Do the test inputs {CGPA = 8, CGPA = 9, CGPA = 9.5} belong to the same partition? **1 point**
  - ☒ Yes, they belong to the same partition.
  - ☐ No, they belong to different partitions.
- 3) What is the expected output for the test case containing CGPA = 8 as input? **1 point**
  - ☒ Eligibility for offers above INR 20,00,000/= per annum and if no such offers exist, eligible for all offers.
  - ☐ Only eligible for offers above INR 20,00,000/= per annum.
- 4) State true or false: A student has a CGPA of 6 and will be eligible to appear for placements for companies with a salary offer of INR 20,00,000/=. **1 point**
  - ☐ True.

Solving (unit?  
unit=59&lesson=60)

Functional  
Testing (unit?  
unit=59&lesson=61)

Input Space  
Partitioning  
(unit?  
unit=59&lesson=62)

Input Space  
Partitioning:  
Coverage  
Criteria (unit?  
unit=59&lesson=63)

Input Space  
Partitioning  
Coverage  
Criteria:  
Example (unit?  
unit=59&lesson=64)

Practice: Week  
7 : Assignment  
7 (Non  
Graded)  
(assessment?  
name=117)

Quiz: Week 7  
: Assignment  
7  
(assessment?  
name=142)

Week 7  
Feedback  
Form:  
Software  
Testing (unit?  
unit=59&lesson=130)

Week 8 ()

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Books ()

☒ False.

5) Which of the following is a correct partitioning of inputs?

1 point

☒

Salary range: 1. INR  $x$  to INR 20,00,000, 2. INR 20,00,001 to INR  $y$  where  $x$  is the minimum salary offered and  $y$  is the maximum salary offered.

☐ Salary range: 1. INR 0 to INR 20,00,000, 2.  $\geq$  INR 20,00,000.

☐ Both the options above can be valid partitions.

☐ None of the options above are valid partitions.

6) Amongst the various coverage criteria for input space partitioning, which is the most expressive and which is the least expressive? **1 point**

☐ All combinations coverage is the least expressive and multiple base choice coverage is the most expressive.

☐ All combinations coverage is the most expressive and multiple base choice coverage is the least expressive.

☐ Each choice coverage is the most expressive and all combinations coverage is the least expressive.

☒ Each choice coverage is the least expressive and all combinations coverage is the most expressive.

7) State true or false: Multiple base choice coverage subsumes pair-wise coverage.

1 point

☐ True.

☒ False.

8) Which criterion below will have a maximum number of test cases?

1 point

☐ Each choice criterion.

☒ All combinations criterion.

☐ Base choice coverage criterion.

☐ Multiple base choice coverage criterion.

9) When does  $T$ -wise coverage criterion become the same as all combinations coverage criterion?

1 point

☐

When the value for  $T$  is the maximum value in a partition.

☒

When the value for  $T$  is equal to the number of partitions.

10) State yes or no: While partitioning the inputs using equivalence partitioning, both valid and invalid inputs need to be considered.

1 point

☒ Yes.

☐ No.

You may submit any number of times before the due date. The final submission will be considered for grading.

**Submit Answers**