Chapter 1 Class 11 - Sets
- Assertion and Reasoning Worksheet 1
by *teachoo*

Chapter: **Chapter 1 Class 11 Maths – Sets**

Name: _____

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Roll Number: _____

Instructions:

For each question, two statements are given: Assertion (A) and Reason (R). Choose the correct option.

(a) Both A and R are true, and R is the correct explanation of A.

(b) Both A and R are true, but R is not the correct explanation of A.

(c) A is true, but R is false.

(d) A is false, but R is true.

1. **Assertion (A):** The group of "all skilled workers" in a factory is not a well-defined set.

   Reason (R): The term "skilled" is subjective and lacks a precise, measurable criterion, making the collection not well defined.

2. **Assertion (A):** The set of ingredients for a cheese pizza, {dough, tomato sauce, cheese}, is equal to the set of ingredients for a "classic pizza," {cheese, dough, tomato sauce}.

   Reason (R): The order in which elements are listed in a set does not change the set's identity.

3. **Assertion (A):** In biological classification, the set of all 'Tigers' is a proper subset of the set of all 'Mammals'.

   Reason (R): Every tiger is a mammal, but there are many other mammals (like elephants) that are not tigers.

4. **Assertion (A):** An email spam filter places emails into a 'Spam' folder (Set S). The set of all emails in your main 'Inbox' can be represented as S'.

   Reason (R): The complement S' contains all emails from the universal set of incoming mail that are not in the set S.

5. **Assertion (A):** If a software program's Version 2.0 (Set V2) has all the features of Version 1.0 (Set V1) plus some new ones, then the set of new features is represented by $V2 - V1$.

   Reason (R): The difference of sets A - B contains only the elements that are in A but not in B.

Important links

- Answer of this worksheet -https://www.teachoo.com/25608/5370/Assertion-Reasoning---Worksheet-1/category/Teachoo-Questions---Assertion-Reasoning/

- Full Chapter with Explanation, Activity, Worksheets and more –

  https://www.teachoo.com/subjects/cbse-maths/class-11th/ch1-11th-sets/

- Maths Class 11 - https://www.teachoo.com/subjects/cbse-maths/class-11th/

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