

Distance And Direction Questions Overview

Distance And Direction Questions have a good weightage in the Banking Exam and the type of question asked in Banking exam is similar to the question mentioned below. It has been solved and explained by Gargi.ai Experts and they have tried to elaborate the concept used in Distance And Direction Questions.

Distance And Direction Questions

Direction: Read the given information carefully and answer the following questions. Point Q is 8 m east of point P. Point U is 3 m west of point T. Distance between point S and point T is 10 m. Point R is 6 m west of point S. Point Q is 6 m south of point R. Point T is south east of point Q.

Question

What is the shortest distance between point P and point R?

Difficulty : Moderate

Average Time : 47 Seconds

Options :

1. 10 m
2. 12 m
3. 14 m
4. 24 m
5. None of these

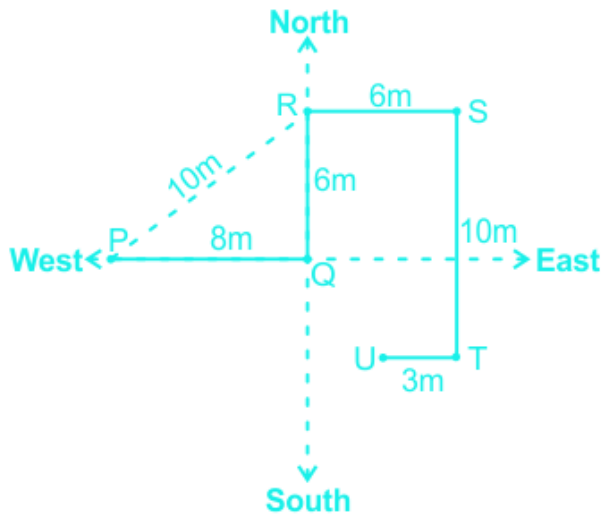
Solution

The correct answer is **Option 1** i.e. **10 m**

- 1) Point Q is 8 m east of point P.
- 2) Point U is 3 m west of point T.
- 3) Distance between point S and point T is 10 m.
- 4) Point R is 6 m west of point S.

5) Point Q is 6 m south of point R.

6) Point T is south east of point Q.



By using Pythagoras theorem we can find the distance between point P and point R:

$$PQ^2 + RQ^2 = PR^2$$

$$8^2 + 6^2 = PR^2$$

$$64 + 36 = PR^2$$

$$100 = PR$$

$$PR = 10 \text{ m}$$

Hence, the correct answer is **10 m**.