

## Corrigendum/Explanation SFG 2024 Level 2 Test 26

**Number of items taken for scoring: 49**

**Number of items dropped: 01 (Question no. 49)**

There is one change in today's paper (Q. 49). Q.49 has been dropped due to a printing error in the offline file.

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### For Future Reference

**Q.49)** In a village, out of all the adult population, 45% men and 40% women are married. What is the percentage of married adult population in total population if no man marries more than one woman and no woman marries more than one man and there are no widows and widowers?

- a) more than 20 percent but less than 30 percent
- b) more than 30 percent but less than 40 percent
- c) more than 40 percent but less than 45 percent
- d) more than 45 percent but less than 50 percent

**Ans) c**

**Exp) option c is the correct answer**

We are given that,

Out of the total adult population of a village, 45% men are married and 40% women are married and each marriage has one man and one woman

Let M = number of men

W = number of women

Let the total population be P.

Since there are no widows or widowers, all the couples are alive,

Hence number of married men = number of married women

$$45M/100 = 40W/100$$

$$W = (9/8)M$$

$$\text{Total Population } P = M + W$$

$$= M + (9/8)M$$

$$= (17/8)M$$

$$\text{Now, Total married adults} = 0.45M + 0.40W$$

$$= 0.45M + 0.4(9/8)M$$

$$= 0.90M$$

$$\text{Percentage of married adult population} = (0.90M)/(17/8)M = (0.90 \times 8)/17$$

$$= (7.2/17) \times 100 \%$$

$$= 42.3529\%$$

Subject:) CSAT

Topic:) Logical and Verbal Reasoning

Subtopic:)