

**Vidhigya Challenger Series**  
**Daily Practice Sheet 11**  
**Quantitative Techniques**

**Directions (1-5): Read the following information carefully and answer the questions that follow.**

A survey was conducted on some people of a society about their choice on 'Indian' food and 'Italian' food. The people can select only Indian, only Italian or both. The no. of males and females are in the ratio 7:8. 40% of the Males and 10% of the Females like only Indian. Out of the total females, 15% chose both types as their choice. The numbers of males who selected only Italian are double to that of those who selected both types as their choice. A total of 52 people selected both types as their choices.

**1.** Which of the following statement is/are correct?

- (i) The number of male who like only Indian is equal to number of male who like only Italian.  
(ii) The number of males and females who selected both types of food as their choice is not same.  
(iii) The number of females who like only Indian is one fourth of number of males who like only Italian.
- (a) Only statement 1  
(b) Statement 1 and statement 2  
(c) Statement 1 and statement 3  
(d) All of the above

**2.** The number of females who like only Indian is how much percent less/more than the number of males who like only Italian?

- (a) 66.66%                      (b) 71.42%                      (c) 57.14%                      (d) 28.56%

**3.** What is the difference of total no. of females to total no. of males?

- (a) 10                              (b) 20                              (c) 30                              (d) 40

**4.** Find difference of number of males who like both types and the number of females who like only Indian.

- (a) 12                              (b) 10                              (c) 14                              (d) 16

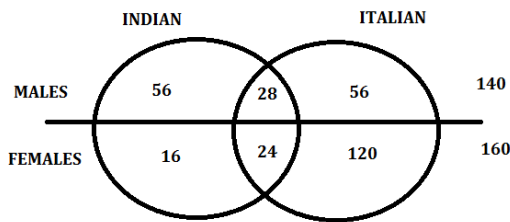
**5.** The number of males and females who like both the types is how much percent less than the number of males and females who like only Indian?

- (a) 25.55%                      (b) 26.66%                      (c) 27.77%                      (d) 28.88%

## Answers & Explanations

**1. Ans. b**

Sol. b



Statement (i) is correct, as  $56 = 56$

Statement (ii) is correct, as  $28 \neq 24$

Statement (iii) is not correct, Number of female who select Indian = 16

Number of male who select Italian =  $56/4 = 14$

Number of female who select Indian  $\neq$  Number of male who select Italian/4

Hence, option (b) is correct.

**2. Ans. b**

Sol. FOLLOWING THE COMMON EXPLANATION

$(56-16)/56 \times 100 = 40/56 = 5/7 = 71.42\%$

Hence, option (b) is correct.

**3. Ans. b**

Sol. FOLLOWING THE COMMON EXPLANATION

Females = 160

Males = 140

Difference = 20

Hence, option (b) is correct.

**4. Ans. a**

Sol. FOLLOWING THE COMMON EXPLANATION

Number of male like both = 28

Number of female like India = 16

Difference =  $28 - 16 = 12$

Hence, option (a) is correct.

**5. Ans. c**

Sol. FOLLOWING THE COMMON EXPLANATION

Number of male and female like both =  $28 + 24 = 52$

Number of male and female like only Indian =  $56 + 16 = 72$

Now,  $(72-52)/72 \times 100 = 20/72 = 27.77\%$

Hence, option (c) is correct.