<u>Explanation for selected questions of Paper- II (Series A) of APPSCCE-2024</u>

Q. 32

Solution:

- o Arts: 41.7%
- o Science: 33.3%
- o Commerce: 25.0%

Together, Arts and Science account for: 41.7%+33.3%=75.0%

Let the total number of students be x. Then 75.0% of the total students equals:

Total Arts + Science students = 0.75x

If 0.75x equals 250, 260, 270, or 280, solve for x (the total number of students).

Since the number of students cannot be in decimal and only in whole number therefore,

- o Option A: 250
  Total x = 250/0.75 = 333.33 (not valid)
- o Option B: 260
  Total x= 260/75= 346.67 (not valid)
- o Option C: 270
  Total x=270/75 = 360 **(valid)**
- o Option D: 280
  Total x=280/75 = 373.33 (not valid)

The correct option is **C) 270.**

Q. 35.

Ans: To determine the approximate percentage of sales generated by online channels:

From the pie chart:

- **Online Sales** = 45.0%
- **Offline Sales** = 40.0%
- **Other** = 15.0%

The answer is directly given as **45%** for online sales.

So it cannot be less than 45%, therefore option A is eliminated.

So approximate number closest to 45% from the options is 48%

The correct option is: **[B] 48%**

Q. 38.

Ans: The pie chart shows the preferred modes of transportation for students, with the following percentages:

- **Car**: 35.0%
- **Bus**: 25.0%
- **Bike**: 15.0%
- **Other**: 15.0%
- **Walking**: 10.0%

Evaluating the Options:

- **Option [A]**: More students from Alpha college prefer to walk or bike compared to those from Beta college
    - The chart only shows the overall percentages, not a breakdown for Alpha or Beta. Thus, we cannot confirm this.
- **Option [B]**: A higher percentage of students from Beta college prefer to take the bus compared to those from Alpha college
    - The chart does not provide a comparison between Alpha and Beta specifically. This option cannot be verified.
- **Option [C]**: The majority of students from both colleges prefer to travel by car
    - The pie chart shows that 35% of students prefer cars. Since this is the largest percentage (majority), **this statement is true**.
- **Option [D]**: There is no significant difference in preferred modes of transportation between the two colleges
    - The chart does not distinguish between Alpha and Beta, so we cannot determine if there's a significant difference.

The correct answer is **[C]**: "The majority of students from both colleges prefer to travel by car.