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Date Interpretation Set Theory Questions Quiz for Bank PO Exams

Data Interpretation Set theory Quiz 1

Directions: Study the given information carefully to answer the questions.

Out of 6500 students from the Art-wing of a college 21% of the total numbers of students have majored only in Psychology. 12% of the total number of students have majored only in English literature, 15% of the total number of students have majored only in Politics. 7% of the total numbers of students have majored only in Philosophy and 10% of the total numbers of students have majored only in History. 8% of the total numbers of students have majored in both Psychology as well as Philosophy. 4% of the total numbers of students have majored in History as well as Politics and 11% of the total numbers of students have majored in English literature as well as Politics. 9% of the total Number of students have majored in Psychology and English literature and 3% of the total number of students have majored in History and Philosophy.

1. What is the respective ratio of the number of students majored in Philosophy to number of students majored only in Psychology?

- A. 4 : 5
D. 7 : 8
B. 5 : 6
E. None of these
C. 6 : 7

2. Students majored in History are approximately, what per cent of the total number of students majored in Politics?

- A. 48%
D. 57%
B. 61%
E. 45%
C. 52%

3. How many students have majored only in Politics?

- A. 650
D. 455
B. 975
E. None of these
C. 780

4. What is the total number of students majored in English literature?

- A. 780
D. 2050
B. 1495
E. None of these
C. 1300

5. Lowest number of students have majored in which subject?

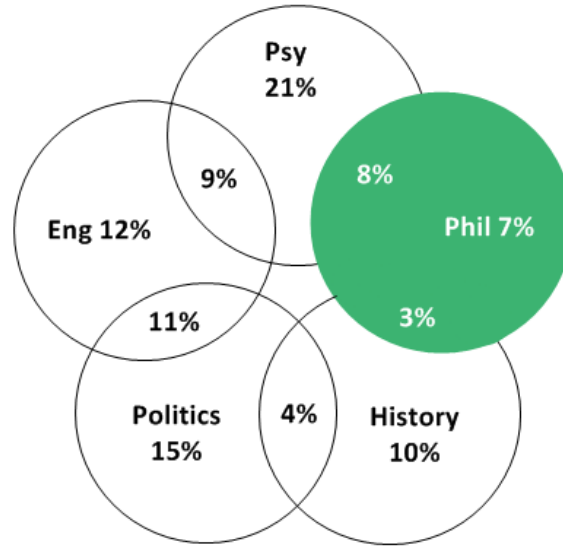
- A. History
D. English literature
B. Philosophy
E. Psychology
C. Politics

Correct Answers:

1	2	3	4	5
C	D	B	E	A

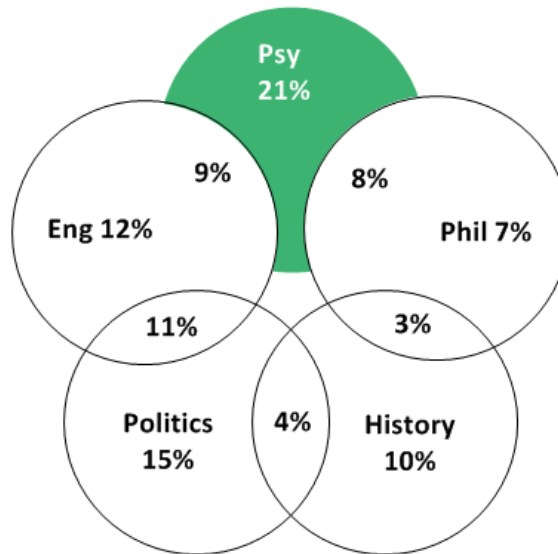
Explanations:

1. As per the venn diagram,



Total % of students majored in Philosophy = $(7 + 8 + 3)\% = 18\%$

And

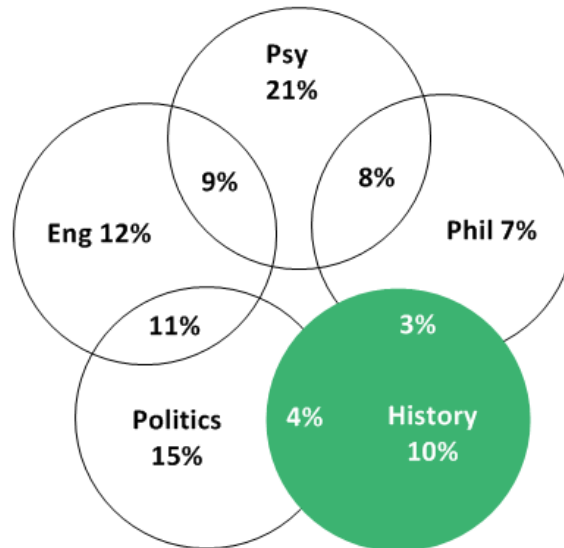


% of students majored only in Psychology = 21%

$$\text{Reqd ratio} = \frac{18\%}{21\%} = 6 : 7$$

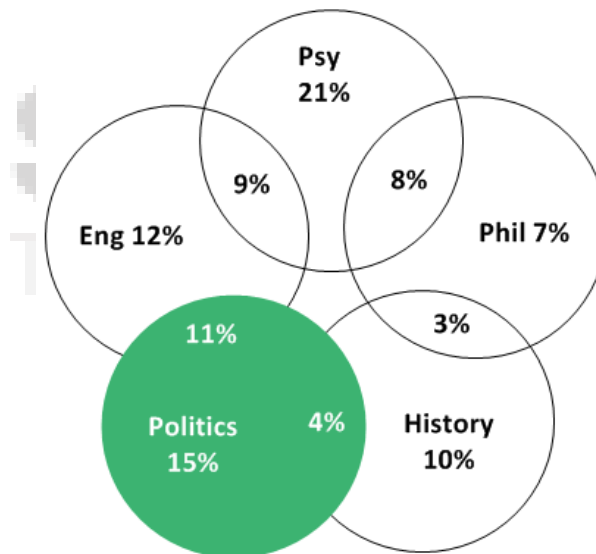
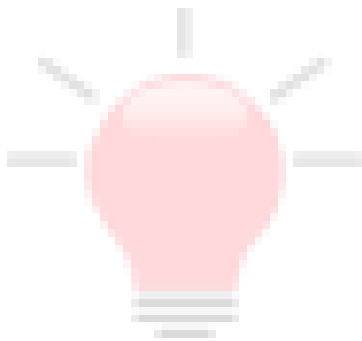
Hence, option C is correct.

2. As per the venn diagram,



Total % of students majored in History = $(10 + 4 + 3)\% = 17\%$

And

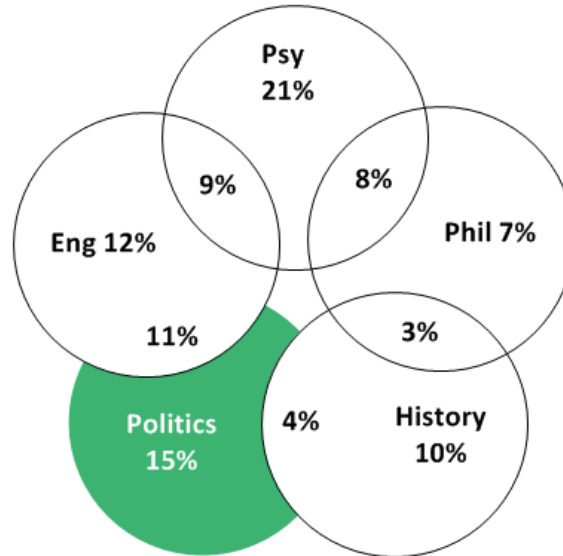


Total % of students majored in politics = $(15 + 4 + 11)\% = 30\%$

$$\therefore \text{Reqd \%} = \frac{17 \times 100}{30} = 56.66\% \approx 57\%.$$

Hence, option B is correct.

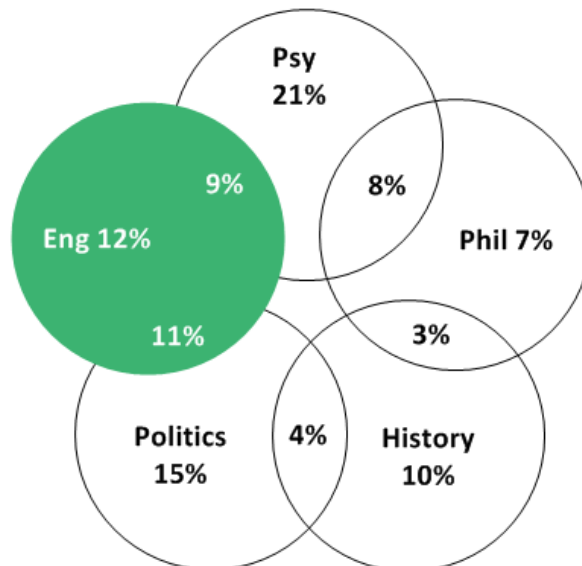
3. As per the venn diagram,



Therefore, No. of students majored only in Politics = 15% of 6500
= (10% + 5%) of 6500
= 650 + 325
= 975

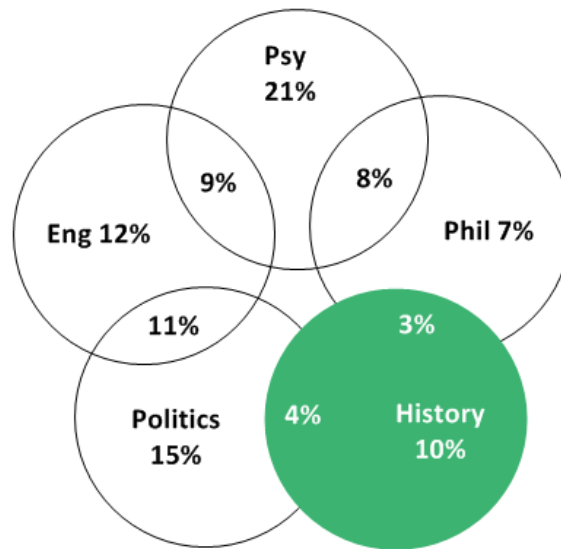
Hence, option B is correct.

4. As per the venn diagram,



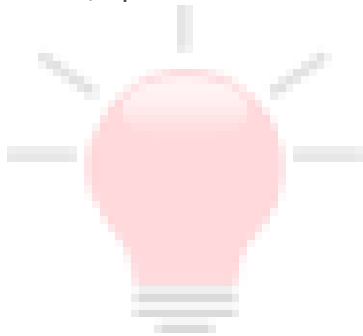
Total % of students majored in English = (12 + 9 + 11) % of 6500
= 32% of 6500 = (30% + 2%) of 6500 = 1950 + 130 = 2080
Hence, option E is correct.

5. On adding all % values for different subjects,



we can observe that the lowest number of students has majored in History.

Hence, option E is correct.



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