

SBI PO Prelims (18th Dec)

Memory Based Paper

(PDF In English)

Direction: Study the following information carefully and answer the following question. Six people i.e., A, B, C, D, E, and F are traveling on 17th and 22nd of three different months i.e., March, June and July. All of them like different subjects. All the information is not necessarily in the same order. B goes on an odd numbered date in the month having more than 30 days. Two people go between B and the one who likes history. F goes in an odd numbered date before the one who likes history. Number of people goes before F is same as goes after A. A goes just after the one who likes Zoology. The one who likes botany goes after the one who likes zoology. Two people go between the one who likes botany and E. The one who likes geology goes before E. E does not like chemistry. C goes before D. C neither likes botany nor physics.

1. Who amongst the following likes Botany?

- A. D
- B. A
- C. B
- D. E
- E. None of these

2. How many people go before the one who likes Chemistry?

- A. One
- B. Three
- C. Two
- D. Four
- E. None

Direction: Study the following information carefully and answer the following question. Six people i.e., A, B, C, D, E, and F are traveling on 17th and 22nd of three different months i.e., March, June and July. All of them like different subjects. All the information is not necessarily in the same order. B goes on an odd numbered date in the month having more than 30 days. Two people go between B and the one who likes history. F goes in an odd numbered date before the one who likes history. Number of people goes before F is same as goes after A. A goes just after the one who likes Zoology. The one who likes botany goes after the one who likes zoology. Two people go between the one who likes botany and E. The one who likes geology goes before E. E does not like chemistry. C goes before D. C neither likes botany nor physics.

3. E likes which subject?

- A. Chemistry
- B. Zoology
- C. Botany
- D. Physics
- E. None of these



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4. Who goes on march 22?

- A. The one who likes History
- B. E
- C. D
- D. The one who likes Botany
- E. None of these

5. Which of the following statements are correct?

- I. F goes before the one who likes Physics
 - II. E likes Chemistry
 - III. The one who likes zoology goes after D
- A. Only I
 - B. Both II and III
 - C. Both I and III
 - D. Only III
 - E. None is correct

Direction: In the question below are given three statements followed by the conclusions. You have to take the given statements to be true even if they seem to be at variance with commonly known facts. Read all the conclusions and then decide which of the given conclusions logically follows from the given statements disregarding commonly known facts.

6. **Statement:**

All Kite is Lamp
Only a few Lamp is Rope
No Rope is Sing

Conclusion:

- I. All Lamp being Sing is a possibility
 - II. No Sing is Kite
- A. Only I follows
 - B. Only II follows
 - C. Both I and II follow
 - D. Neither I nor II follow
 - E. Either I or II follow

7. Statement:

Only a few Sun is Cloud

All Sun is Light

Only a few Cloud is Rain

Conclusion:

I. All Light being Cloud is a possibility

II. Some Sun is not Rain

A. Only I follows

B. Only II follows

C. Both I and II follow

D. Neither I nor II follow

E. Either I or II follow

8. Statement:

Only a few Ball is Cross

No Ball is Word

All Word is Fog

Conclusion:

I. All Cross being Word is a possibility

II. Some Fog being Cross is a possibility

A. Only I follows

B. Only II follows

C. Both I and II follow

D. Neither I nor II follow

E. Either I or II follow

Direction: In the question below are given three statements followed by the conclusions. You have to take the given statements to be true even if they seem to be at variance with commonly known facts. Read all the conclusions and then decide which of the given conclusions logically follows from the given statements disregarding commonly known facts.

9. Statement:

All Size is Top

Only a few Top is Moon

All Moon is Tea

Conclusion:

I. All Size being moon is a possibility

II. Some Top are not Tea

A. Only I follows

B. Only II follows

C. Both I and II follow

D. Neither I nor II follow

E. Either I or II follow

10. How many such pairs of letters are there in the word **CUSTOMER** each of which has as many letters between them in the word (in both forward and backward directions) as they have between them in the English alphabetical series?

- A. Three
- B. One
- C. Two
- D. None
- E. More than three

Direction: Study the following data carefully and answer the questions accordingly.

Five boxes i.e., A, B, C, D and E are placed one above the other in a stack. All of them contain different number of books. Two boxes are placed between Box D and the box having 11 books. Only one box is placed between box B and the box having 11 books. The box having 23 books placed just above Box B. Two boxes are placed between Box A and the box having 23 books. Two boxes are placed between Box C and Box having 30 books. Box C is placed above the box having 30 books. The box having 30 books does not placed at the bottom. Number of books in Box D is 10 more than the number of books in box B. Number of books in Box A is 6 more than the number of books in Box C. Difference between the books in Box C and Box E is not more than 20.

11. Which box is placed above Box B?

- A. Only E
- B. Both C and E
- C. Only D
- D. Both D and A
- E. None

12. Which box is placed between Box E and Box D?

- A. The box having 11 books
- B. The box having 31 books
- C. The box having 20 books
- D. The box having 17 books
- E. None of these

Direction: Study the following data carefully and answer the questions accordingly.

Five boxes i.e., A, B, C, D and E are placed one above the other in a stack. All of them contain different number of books. Two boxes are placed between Box D and the box having 11 books. Only one box is placed between box B and the box having 11 books. The box having 23 books placed just above Box B. Two boxes are placed between Box A and the box having 23 books. Two boxes are placed between Box C and Box having 30 books. Box C is placed above the box having 30 books. The box having 30 books does not placed at the bottom. Number of books in Box D is 10 more than the number of books in box B. Number of books in Box A is 6 more than the number of books in Box C. Difference between the books in Box C and Box E is not more than 20.



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13. How many books are there in Box D?

- A. 23
- B. 30
- C. 20
- D. 11
- E. None of these

Direction: In the following question, a word is given, which has been used in the three statements given below it. Identify the statement(s) in which the word fits contextually to convey a logical meaning.

14. **DEFY**

I. **defy** you to come up with one major accomplishment of the current Prime Minister.

I. If you **defy** the law, you may find yourself in prison.

II. They **defied** an evacuation order and stayed in town during the hurricane.

- A. Only I
- B. Only II
- C. Only III
- D. Both II and III
- E. All I, II and III

15. **HANDLE**

I. We only **handle** cosmetics that have not been tested on animals.

II. Workers who **handle** asbestos need to wear protective clothing.

III. Immediate **handle** of all relevant documents should be done on the day of joining.

- A. Only I
- B. Only II
- C. Only III
- D. Both I and II
- E. Both II and III

16. **Amend**

I. Until the constitution is **amended**, the power to appoint ministers will remain with the president.

II. We will **amend** the plan from this end when we pull it all together.

III. This is an optional set of characters that you can **amend** to the end of your bounce-back offer codes.

- | | |
|------------------|--------------------|
| A. Only I | B. Only II |
| C. Only III | D. Both II and III |
| E. Both I and II | |

17. **Account**

I. She gave a thrilling **account** of her life in the jungle.

II. He doesn't drink alcohol on **account** of his poor health.

III. He knew his father would be angry, but it was of little **account**.

- | | |
|----------------------|--------------------|
| A. Only I | B. Only II |
| C. Only III | D. Both II and III |
| E. All I, II and III | |



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Direction: Read the sentence to find out whether there is an error in it. The error, if any, will be in one part of the sentence. The number corresponding to that part will be your answer. If the given sentence is correct as it is, mark the answer as 'No error'. Ignore the errors of punctuation, if any.

18. I have no knowledge of (1)/ the Japanese language, but being (2)/ a native English speaker I have a (3)/ great amount of knowledges of my own language. (4)

- A. 1
- B. 2
- C. 3
- D. 4
- E. No error

19. India is actively working (1)/ towards an vision to have an interconnected (2)/ power grid across the South Asian region (3)/ covering as many countries as feasible (4)

- A. 1
- B. 2
- C. 3
- D. 4
- E. No error

20. A security researcher has found a way (1)/ to exploited the data deletion capabilities (2)/ of widely used antivirus software (3)/ to turn them into data wipers. (4)

- A. 1
- B. 2
- C. 3
- D. 4
- E. No error

21. **Direction:** In the given statement some words have been highlighted. These words may not be at the correct place making the sentence grammatically and contextually incorrect. Choose the option which represents the correct sequence of words, which will make the sentence grammatically and contextually correct.

A **program** (A) can be anything that is sent over the air **transmission**, (B) such as a radio broadcast or a television **waves**. (C)

- A. BAC
- B. CAB
- C. BCA
- D. ACB
- E. No rearrangement needed

22. After refusing to **listen** (A) to the judge, the defendant was **taken** (B) in contempt of court and **held** (C) back to the jail.

- | | |
|----------------------------|--------|
| A. CAB | B. ACB |
| C. BAC | D. BCA |
| E. No rearrangement needed | |



23. Science **genre** (A) is an interesting **fantasy** (B) that melds real-life science with **fiction** (C) elements.

- A. CAB
- B. ACB
- C. BAC
- D. BCA
- E. No rearrangement needed

Direction: In the given question, a part of the sentence is printed in bold. Below the sentence, alternatives to the emboldened part are given as (A), (B), (C) and (D), which may help improve the sentence. Choose the correct alternative out of the given five options. In case the given sentence is correct, your answer will be option (E), i.e., "No correction required".

24. Sarah **spent her money sensibly** and doesn't blow it on frivolous purchases or things she doesn't need.

- A. will spent her money sensibly
- B. Spend her money sensibly
- C. Spends her money sensibly
- D. Will spend her money sensibly
- E. No correction required

25. Even though parts of the **Presidents speech were offensive**, the crowd pretended not to notice the hateful remarks.

- A. President's speech are offensive
- B. Presidents speeches were offensive
- C. President speech is offensive
- D. President's speech were offensive
- E. No correction required

Direction: The following question carries a statement with two blanks. From the given options, choose the word that would fit in both the blanks to make the sentence grammatically correct and meaningful.

26. Hungary has an _____ and internationally _____ cuisine.

- A. Exhibit, renowned
- B. Excellent, recognised
- C. Amazing, cheapest
- D. Exorbitant, degraded
- E. Lip Smacking, honoured

27. Even the country's top linguist _____ it difficult to _____ the ancient text.

- A. Made, grasp
- B. Observed, write
- C. Noted, decrypt
- D. Found, decipher
- E. Learned, solve



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28. Because of my _____ in criminal justice, I was _____ to be the guest speaker at our town's police conference.

- A. Competence, provoked
- B. Capability, awaited
- C. Expertise, invited
- D. Aptitude, informed
- E. Professionalism, entice

Direction: In the following series one number is wrong, Find the wrong number in the series.

29. 2, 13, 77, 384, 1535, 4605, 9207

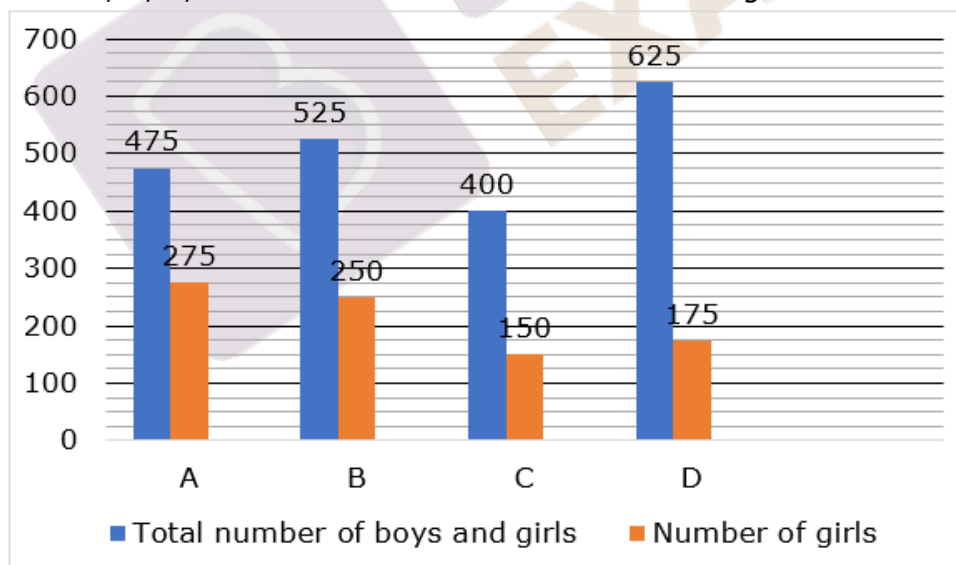
- A. 384
- B. 77
- C. 4605
- D. 9207
- E. 13

30. 16, 17, 35, 106, 425, 2125, 12757

- A. 425
- B. 35
- C. 17
- D. 2125
- E. 106

Direction: Study the following information carefully and answer the given questions.

The given below Bar graph shows the number of total number of boys and girls in five schools, A, B, C and D. It also shows the number of girls in these five schools.



31. If 42 students from school C are transferred to school D and ratio of boys to girls among the transferred students is 3 : 4, what will be the percentage increase in number of boys in school D?

- A. 2.5%
- B. 4%
- C. 5%
- D. 7.5%
- E. None of these

32. What is the average number of boys in school A, C and D?

- A. 300
- B. 225
- C. 275
- D. 360
- E. None of these

33. Aman and Rohan started a business with investments of Rs 6000 and Rs 9000. After 4 months Sohan joined business with $\frac{1}{3}$ of Aman investment amount. If the total annual profit is Rs 3920, find the difference between Aman's share and Rohan's share in the annual profit.

- A. Rs 660
- B. Rs 880
- C. Rs 740
- D. Rs 620
- E. None of these

34. X men can complete a work in 41 days and $(X + 40)$ men can complete the same work in 20 less days than the time taken by X men. Find in how many days $(X - 21)$ men can complete the same work.

- A. 164
- B. 80
- C. 41
- D. 82
- E. None of these

35. The volume of a cylinder is 3388 cm^3 . The diameter of cylinder is equal to the side of square whose perimeter is 56 cm. Find the curved surface area of cylinder.

- A. 624 cm^2
- B. 968 cm^2
- C. 754 cm^2
- D. 268 cm^2
- E. None of these

36. The ratio of milk and water in a vessel is 4 : 1 . $\frac{1}{5}$ th part of the mixture is taken out and L litre of fresh milk and same amount of water is added to the mixture. If the difference between the quantity of milk and water in the final mixture becomes 120 litres, then find the initial quantity of the mixture.

- A. 200 litres
- B. 300 litres
- C. 250 litres
- D. 180 litres
- E. None of these

Direction: In the following question two equations are given in variables x and y. You have to solve these equations and determine the relation between x and y.

37. I. $48X^2 - 31X + 5 = 0$

II. $24Y^2 - 22Y + 5 = 0$

- A. $X > Y$
- B. $X < Y$
- C. $X \leq Y$
- D. $X \geq Y$
- E. $X = Y$ or no relation can be established

Direction: What approximate value will come in place of the question mark (?) in the following question? (You are not expected to calculate the exact value) ###DONE###

38. $(14.1)^2 - 119.91 + \sqrt{143} - 24.99\% \text{ of } 158.89 = ?$

- A. 10
- B. 25
- C. 84
- D. 48
- E. 75



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ANSWERS

1. Ans. B.

Date and month	people	subject
March 17	F	Geology
March 22	C	History
June 17	E	Physics
June 22	D	Chemistry
July 17	B	Zoology
July 22	A	Botany

2. Ans. B.

Date and month	people	subject
March 17	F	Geology
March 22	C	History
June 17	E	Physics
June 22	D	Chemistry
July 17	B	Zoology
July 22	A	Botany

3. Ans. D.

Date and month	people	subject
March 17	F	Geology
March 22	C	History
June 17	E	Physics
June 22	D	Chemistry
July 17	B	Zoology
July 22	A	Botany

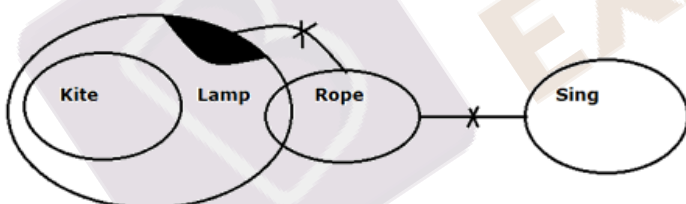
4. Ans. A.

Date and month	people	subject
March 17	F	Geology
March 22	C	History
June 17	E	Physics
June 22	D	Chemistry
July 17	B	Zoology
July 22	A	Botany

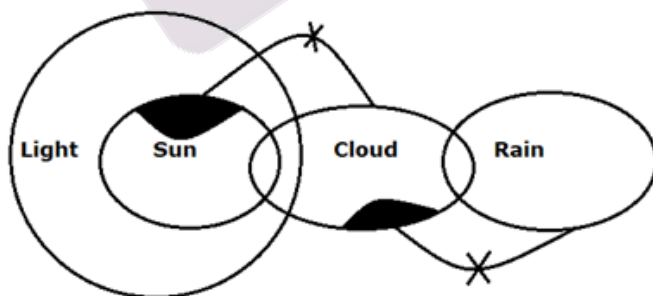
5. Ans. C.

Date and month	people	subject
March 17	F	Geology
March 22	C	History
June 17	E	Physics
June 22	D	Chemistry
July 17	B	Zoology
July 22	A	Botany

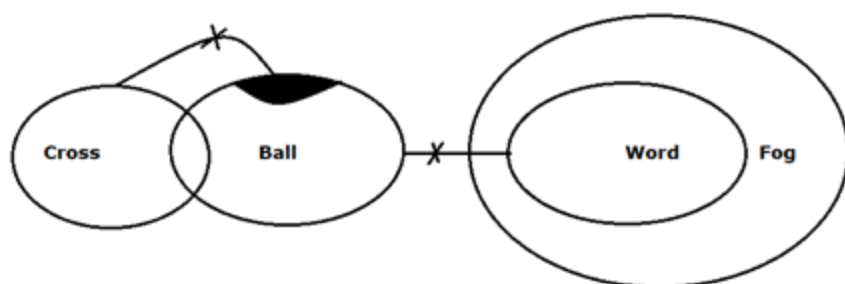
6. Ans. D.



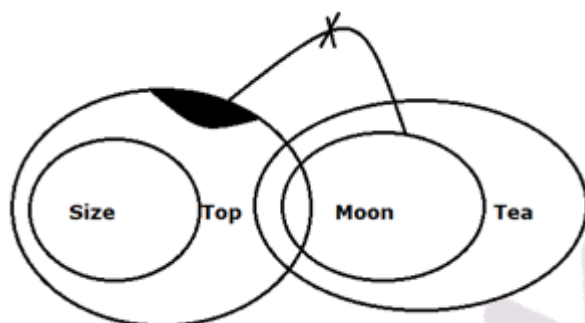
7. Ans. D.



8. Ans. B.



9. Ans. A.



10. Ans. C.



11. Ans. B.

Box	No. of Books
C	11
E	23
B	20
D	30
A	17



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12. Ans. C.

Box	No. of Books
C	11
E	23
B	20
D	30
A	17

13. Ans. B.

Box	No. of Books
C	11
E	23
B	20
D	30
A	17

14. Ans. E.

The correct answer is E.

The meanings of the word as used in the sentences:

II and III: to refuse to obey a person, decision, law, situation, etc.:

I: to tell someone to do something that you think will be impossible

15. Ans. D.

The use of the word handle means the following in the given statements:

Statement I: to buy and sell goods

Statement II: to deal with, have responsibility for, or be in charge of

Statement III: the correct word would be 'handover'.

16. Ans. E.

I: to make a change to a law

II: to make changes, modify

III: correct word is append which means to add something to the end of a piece of writing



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17. Ans. E.

I: a written or spoken description or record of an event

II: because of something:

III: to not be important

18. Ans. D.

It should be knowledge and not knowledges as it is an uncountable noun.

19. Ans. B.

It should be 'a vision' in place of 'an vision'.

20. Ans. B.

It should be 'to + v1" ie., 'to exploit' and not exploited.

21. Ans. C.

The correct order is BCA. Anything sent over air waves is not a program but a transmission like a broadcast. 'Television program', 'air waves' makes most sense.

22. Ans. B.

One cannot be taken in contempt of court, but be held in contempt of court. So the correct order is ACB.

23. Ans. A.

The correct order is CAB.

Correct Sentence: Science **fiction** is an interesting **genre** that melds real-life science with **fantasy** elements.

24. Ans. C.

The apt tense here is present simple. Accordingly, singular subject would take singular verb. So, Sarah spends her money sensibly would be the correct phrase.

25. Ans. D.

As the subject here is plural - "parts of the speech", the verb must be plural i.e, 'were'. It will be in past tense as hinted by the latter part of the sentence 'pretended'.

26. Ans. B.

The correct answer is B.

27. Ans. D.

The correct answer is D.

28. Ans. C.

The correct answer is option C

29. Ans. C.

$\times 7 - 1, \times 6 - 1, \times 5 - 1, \times 4 - 1, \times 3 - 1, \times 2 - 1$

2, 13, 77, 384, 1535, **4604**, 9207

30. Ans. D.

$\times 1 + 1, \times 2 + 1, \times 3 + 1, \times 4 + 1,$

16, 17, 35, 106, 425, **2126**, 12757

31. Ans. B.

Number of boys in school D = $625 - 175 = 450$

Number of boys of school C transferred to school D = $\frac{3}{7} \times 42 = 18$

Required percentage increase = $\frac{18}{450} \times 100 = 4\%$



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32. Ans. A.

Total number of boys in school B and E = $(475 - 275) + (400 - 150) + (625 - 175) = 900$

Required average = $\frac{900}{3} = 300$

33. Ans. E.

Ratio of equivalent capital of Aman, Rohan and Sohan for 1 month

= $(6000 \times 12) : (9000 \times 12) : (2000 \times 8)$

= $60 \times 12 : 90 \times 12 : 20 \times 8$

= $18 : 27 : 4$

Total terms of the ratio = $18 + 27 + 4 = 49$

Let the total annual profit be Rs 3920.

According to question,

$49a = 3920$

$a = 80$

\Rightarrow required difference = $27a - 18a = 9a = 9 \times 80 = 720$

34. Ans. D.

The time taken by $(X + 40)$ men to complete the work = $41 - 20 = 21$ days

According to the data provided in the question, we get:

$X \times 41 = (X + 40) \times 21$

$\Rightarrow 41X = 21X + 840$

$\Rightarrow 20X = 840$

$\Rightarrow X = 42$

Now,

$42 \times 41 = (42 - 21) \times D$

$42 \times 41 = 21 \times D$

$D = 82$

Hence, option D is correct.

35. Ans. B.

Side of square = $56/4 = 14$ cm

Diameter of cylinder = 14 cm

Radius of cylinder = 7 cm

$22/7 \times 7 \times 7 \times h = 3388$

$\Rightarrow h = 22$

Curved surface area of cylinder = $2 \times 22/7 \times 7 \times 22 = 968 \text{ cm}^2$

36. Ans. C.

Let the quantity of the milk in the initial mixture be $4x$ litres.

The quantity of the water in the initial mixture = x litres

The quantity of the milk that is taken out from the mixture = $4x \times 0.20 = 0.8x$

The quantity of the water that is taken out from the mixture = $x \times 0.20 = 0.2x$

According to the data provided in the question, we get:

$(4x - 0.8x + L) - (x - 0.2x + L) = 120$

$\Rightarrow 4.2x - 1.8x = 120$

$\Rightarrow 2.4x = 120$

$\Rightarrow x = 50$

Initial quantity of the mixture = $50 \times 5 = 250$ litres

Hence, option C is correct.



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37. Ans. B.

I.

$$48X^2 - 31X + 5 = 0$$

$$\Rightarrow 48X^2 - 16X - 15X + 5 = 0$$

$$\Rightarrow 16X(3X - 1) - 5(3X - 1) = 0$$

$$\Rightarrow (3X - 1)(16X - 5) = 0$$

$$\Rightarrow X = \frac{1}{3} \text{ and } \frac{5}{16}$$

II.

$$24Y^2 - 22Y + 5 = 0$$

$$\Rightarrow 24Y^2 - 12Y - 10Y + 5 = 0$$

$$\Rightarrow 12Y(2Y - 1) - 5(2Y - 1) = 0$$

$$\Rightarrow (2Y - 1)(12Y - 5) = 0$$

$$\Rightarrow Y = \frac{1}{2} \text{ and } \frac{5}{12}$$

Hence, $X < Y$.

38. Ans. D.

$$(14.1)^2 - 119.91 + \sqrt{143} - 24.99\% \text{ of } 158.89 = ?$$

By approximation, we get:

$$? = (14)^2 - 120 + \sqrt{144} - 25\% \text{ of } 160$$

$$= 196 - 120 + 12 - 40$$

$$= 48$$

Hence, option D is correct.



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