



# SBI CLERK 2023



## रफ्तार Batch

- Simplification
- Quadratic Equation
- Data Interpretation - (Table)
- Data Interpretation - (PIE-Chart)

**MATHS**

**Day-2**

हल करो सब कुछ चुटकियों में

LIVE

11:00 AM





30  $P \rightarrow (-4, -3)$

$Q \rightarrow (+5, +2)$

$P \rightarrow (-, -)$

$Q \rightarrow (+, +)$   $P < Q$

Question 1-

(i)  $p^2 + 7p + 12 = 0$

(ii)  $q^2 - 5q + 6 = 0$

(i)  $p > q$

~~(ii)  $p < q$~~

(iii)  $p \geq q$

(iv)  $p \leq q$

(v)  $p = q$  or relation can't be established,



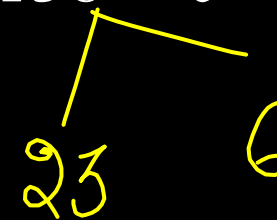
30  $p \rightarrow (-25, -5)$   
 $q \rightarrow (-25, -6)$

- $p = q$
- $\checkmark p < q$
- $\checkmark p > q$

Question 2-

(i)  $p^2 + 28p + 115 = 0$

(ii)  $q^2 + 29q + 138 = 0$



(i)  $p > q$

(ii)  $p < q$

(iii)  $p \geq q$

(iv)  $p \leq q$

$\checkmark$  (v)  $p = q$  or relation can't be established,



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$$P \rightarrow \left( \frac{+10}{2}, \frac{+12}{2} \right) \quad Q \rightarrow (+9, +6)$$
$$P \rightarrow (+9, +6)$$

$P = Q$   
 $P > Q$   
 $P < Q$

Question 3-

$$P^2 - 15P + 54 = 0$$

(i)  $2p^2 - 30p + 108 = 0$

(ii)  $q^2 - 15q + \underline{54} = 0$

(i)  $p > q$

(ii)  $p < q$

(iii)  $p \geq q$

(iv)  $p \leq q$

(v)  $p = q$  or relation can't be established,



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$P \rightarrow (-12, -6)$   $Q \rightarrow (-4, -2)$

$\checkmark \checkmark P < Q$

Question 4-

(i)  $p^2 + 18p + 72 = 0$

(ii)  $q^2 + 6q + 8 = 0$

(i)  $p > q$

~~(ii)  $p < q$~~

(iii)  $p \geq q$

(iv)  $p \leq q$

(v)  $p = q$  or relation can't be established,



30  $P \rightarrow (-17, -1) \quad Q \rightarrow (-5, -2)$

$P < Q$   
 $P > Q$

Question 5-

(i)  $p^2 + 18p + 17 = 0$

(ii)  $q^2 + 7q + 10 = 0$

(i)  $p > q$

(ii)  $p < q$

(iii)  $p \geq q$

(iv)  $p \leq q$

~~(v)~~  $p = q$  or relation can't be established,



30  $p \rightarrow (+2, -1)$   $q \rightarrow (-12, -6)$

$p > q$

Question 6-

(i)  $p^2 - 2p - 3 = 0$

(ii)  $q^2 + 18q + 72 = 0$

~~(i)~~  $p > q$

(ii)  $p < q$

(iii)  $p \geq q$

(iv)  $p \leq q$

(v)  $p = q$  or relation can't be established,



30.  $P \rightarrow (+8, +4) \quad q \rightarrow (+6, +2)$

$P > q$   
 $P < q$  }  $\checkmark$

Question 7-

(i)  $p^2 - 12p + 32 = 0$

(ii)  $q^2 - 8q + \underline{12} = 0$

(i)  $p > q$

(ii)  $p < q$

(iii)  $p \geq q$

(iv)  $p \leq q$

~~(v)~~  $p = q$  or relation can't be established,





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$p \rightarrow (+, -)$   $q \rightarrow (+, -)$

$p > q$   
 $p < q$

Question 8-

(i)  $p^2 - 14p - 120 = 0$

(ii)  $q^2 - 18q - 19 = 0$

(i)  $p > q$

(ii)  $p < q$

(iii)  $p \geq q$

(iv)  $p \leq q$

~~(v)~~  $p = q$  or relation can't be established,



$$(i) \times 2 - (ii)$$

$$\textcircled{30} \quad 4p + 2q = 46$$

$$3p + 2q = 38$$

$$p = 8 \text{ in (i)}$$

$$2 \times 8 + q = 23$$

$$q = 23 - 16$$

$$q = 7$$

Question 9-

$$(i) \quad 2p + q = 23 \text{ ——— (i)}$$

$$(ii) \quad 3p + 2q = 38 \text{ ——— (ii)}$$

~~(i)~~  $p > q$

(ii)  $p < q$

(iii)  $p \geq q$

(iv)  $p \leq q$

(v)  $p = q$  or relation can't be established,



30  $P \rightarrow (+4, -4)$   $Q = (+6)$

$\checkmark P < Q$

Question 10-

(i)  $p^2 = 16$

(ii)  $216 = q^3$   $\rightarrow$  odd.

even power.

(i)  $p > q$

~~(ii)  $p < q$~~

(iii)  $p \geq q$

(iv)  $p \leq q$

(v)  $p = q$  or relation can't be established,



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$$P \rightarrow (+1, -1)$$
$$Q \rightarrow (+1)$$

$$P = Q \quad ] \quad P \leq Q$$
$$P < Q \quad ] \quad \underline{\underline{P \leq Q}}$$

Question 10-

(i)  $p^2 - 1 = 0$

(ii)  $1 = q^3$

(i)  $p > q$

(ii)  $p < q$

(iii)  $p \geq q$

~~(iv)  $p \leq q$~~

(v)  $p = q$  or relation can't be established,



Question 11-  
(i)  $P = \sqrt{9}$   
(ii)  $9 = q^2$

$$P \rightarrow ( +\sqrt{3} )$$

$$Q \rightarrow ( +\sqrt{3}, -\sqrt{3} )$$

$$\left. \begin{array}{l} P = Q \\ P > Q \end{array} \right\}$$

Question 11-

(i)  $P = \sqrt{9}$

(ii)  $9 = q^2$

(i)  $p > q$

(ii)  $p < q$

~~(iii)  $p \geq q$~~

(iv)  $p \leq q$

(v)  $p = q$  or relation can't be established,



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$P \rightarrow (-10, -2)$     $Q \rightarrow (-11, -2)$

$P > Q$   
 $P < Q$

Question 12-

(i)  $p^2 + 12p + 20 = 0$

(ii)  $q^2 + 13q + 22 = 0$

(i)  $p > q$

(ii)  $p < q$

(iii)  $p \geq q$

(iv)  $p \leq q$

~~(v)~~  $p = q$  or relation can't be established,



30  $P \rightarrow (+7, -2)$   
 $Q \rightarrow (+8, +8)$   
 $= P < Q$

Question 13-  $P^2 - 7P + 2P - 14 = 0$

(i)  $p^2 - 5p - 14 = 0$   $P(P-7) - 2$

(ii)  $q^2 - 16q + 64 = 0$

(i)  $p > q$

~~(ii)  $p < q$~~

(iii)  $p \geq q$

(iv)  $p \leq q$

(v)  $p = q$  or relation can't be established,



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$$P \rightarrow (+5, +4) \quad Q \rightarrow (+4, +3)$$

$$\begin{array}{l} \neg P > Q \\ P = Q \end{array} \Bigg] \underline{\underline{P \geq Q}}$$

Question 14-

(i)  $p^2 - 9p + 20 = 0$

(ii)  $q^2 - 7q + 12 = 0$

(i)  $p > q$

(ii)  $p < q$

~~(iii)  $p \geq q$~~

(iv)  $p \leq q$

(v)  $p = q$  or relation can't be established,





30  $P \rightarrow \left( \frac{-8}{2}, \frac{-3}{2} \right) \quad Q \rightarrow \left( \frac{-8}{4}, \frac{-5}{4} \right)$

$P \rightarrow (-4, -1.5) \quad Q \rightarrow (-2, -1.25)$

$P < Q$   
 $P > Q$

Question 15-

(i)  $2p^2 + 11p + 12 = 0$

(ii)  $4q^2 + 13q + 10 = 0$

(i)  $p > q$

(ii)  $p < q$

(iii)  $p \geq q$

(iv)  $p \leq q$

~~(v)~~  $p = q$  or relation can't be established,



30  $\rightarrow \left( \frac{-16}{3}, \frac{+3}{3} \right) \rightarrow (+3, +2)$   
 $P \rightarrow (-5.33, +1)$   
 $\checkmark P < Q$

Question 16-

(i)  $3p^2 + 13p - 16 = 0$

(ii)  $q^2 - 5q + 6 = 0$

48

(i)  $p > q$

~~(ii)  $p < q$~~

(iii)  $p \geq q$

(iv)  $p \leq q$

(v)  $p = q$  or relation can't be established,



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$$p \rightarrow (-6, -2) \quad q \rightarrow (-9, -8)$$

$$\checkmark \checkmark \checkmark p > q$$

Question 17-

(i)  $p^2 + 11p + 30 = 0$

(ii)  $q^2 + 17q + 72 = 0$

~~(i)~~  $p > q$

(ii)  $p < q$

(iii)  $p \geq q$

(iv)  $p \leq q$

(v)  $p = q$  or relation can't be established,



30  $P \rightarrow \left( \frac{+5}{2}, \frac{+4}{2} \right)$   $Q \rightarrow \left( \frac{+8}{3}, \frac{+6}{3} \right)$

$P \rightarrow (+2.5, +2)$   $Q \rightarrow (+2.66, +2)$

$P < Q$   
 $P > Q$

Question 18-

(i)  $2p^2 - 9p + 10 = 0$

(ii)  $3q^2 - 14q + 16 = 0$

(i)  $p > q$

(ii)  $p < q$

(iii)  $p \geq q$

(iv)  $p \leq q$

~~(v)~~  $p = q$  or relation can't be established,



30  $p \rightarrow (-, +)$

$q \rightarrow (-, +)$

Question 19-

(i)  $p^2 + 21p - 46 = 0$

(ii)  $q^2 + 24q - 81 = 0$

(i)  $p > q$

(ii)  $p < q$

(iii)  $p \geq q$

(iv)  $p \leq q$

~~(v)~~  $p = q$  or relation can't be established,



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Question 20-

(i)  $p^2 + 21p - 46 = 0$

(ii)  $q^2 + 24q - 81 = 0$

(i)  $p > q$

(ii)  $p < q$

(iii)  $p \geq q$

(iv)  $p \leq q$

(v)  $p = q$  or relation can't be established,



30  $P \rightarrow (+24, -24)$   
 $Q \rightarrow (+24)$

$P = Q$   
 $P < Q$  }  $P \leq Q$

Question 21-

(i)  $p^2 = 576$

(ii)  $q = 24$

(i)  $p > q$

(ii)  $p < q$

(iii)  $p \geq q$

~~(iv)  $p \leq q$~~

(v)  $p = q$  or relation can't be established,



30  $P \rightarrow (+22, -22)$   
 $Q \rightarrow (+21)$

$P > Q$   
 $P < Q$

Question 22-  $p^2 = 484$   
 $q^3 = 9261$

(i)  $p > q$

(ii)  $p < q$

(iii)  $p \geq q$

(iv)  $p \leq q$

~~(v)~~  $p = q$  or relation can't be established,





30  $P \rightarrow (+8)$

$Q \rightarrow (+13)$

$P < Q$

Question 23-  $p^3 = 512$   
 $q^3 = 2197$

- (i)  $p > q$
- ~~(ii)  $p < q$~~
- (iii)  $p \geq q$
- (iv)  $p \leq q$
- (v)  $p = q$  or relation can't be established,



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$$P \rightarrow (+23) \quad Q \rightarrow (+23, -23)$$

$$\begin{array}{l} P = Q \\ P > Q \end{array} \quad \underline{\underline{P \geq Q}}$$

Question 24-  $p^3 = 12167$   
 $q^2 = 529$

- (i)  $p > q$
- (ii)  $p < q$
- ~~(iii)  $p \geq q$~~
- (iv)  $p \leq q$
- (v)  $p = q$  or relation can't be established,



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$x \rightarrow (-24, -2) \rightarrow (-27, -3)$   
 $q \rightarrow (-27, -3)$

Question 25-  $x^2 + 26x + 48 = 0$   
 $y^2 + 30y + 81 = 0$

$P > q$   
 $P < q$

(i)  $x > y$

(ii)  $x < y$

(iii)  $x \geq y$

(iv)  $x \leq y$

~~(v)~~  $x = y$  or relation can't be established,

**<https://t.me/mathbytarunsirmepl>**