



# MISSION IBPS 2024



**LIVE**  
11:00 AM

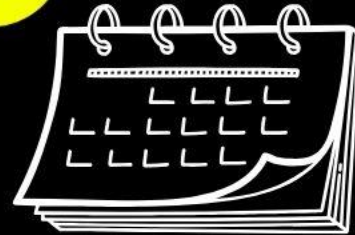
## रुक्ष्य बच



## TOP 100

### MATHS

## QUESTIONS



### DAY -5



$$P \rightarrow (+17, +15) \quad Q \rightarrow (+18, +16)$$

$$P < Q$$

$$P > Q$$

Question 1-

(i)  $p^2 - 32p + 255 = 0$

(ii)  $q^2 + 288 = 34q$

$$q^2 - 34q + 288 = 0$$

2	288
2	144
2	72
2	36
2	18
3	9

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

(ii)  $p < q$

(iii)  $p \geq q$

(iv)  $p \leq q$

(v)  $p > q$



$$P \rightarrow (-8, +7) \quad Q \rightarrow (+16, +7)$$

$$\begin{aligned} \checkmark P < Q \\ P = Q \end{aligned}$$

Question 2-  $P^2 + P - 56 = 0$

(i)  $p(p+1) = 14$  of 4

(ii)  $q^2 + 112 - 23q = 0$

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

(ii)  $p < q$

(iii)  $p \geq q$

(iv)  $p \leq q$

(v)  $p > q$



$$P \rightarrow +32 \quad q = +13$$

$$\frac{1}{q^3} = \frac{1}{2197} \quad \underline{\underline{P > q}}$$

$$q^3 = 2197$$

$$q = \sqrt[3]{2197}$$

Question 3-

$$(i) p' = \sqrt{1024}$$

$$(ii) q^{-3} = \frac{13}{28561} \quad 28561$$

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

(ii)  $p < q$

(iii)  $p \geq q$

(iv)  $p \leq q$

~~(v)  $p > q$~~



$$P \rightarrow (+17, +8) \quad Q \rightarrow (+32, +9)$$

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

Question 4-

(i)  $p^2 - 25p + 136 = 0$

(ii)  $q^2 + 288 = 41q$

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

(ii)  $p < q$

(iii)  $p \geq q$

(iv)  $p \leq q$

(v)  $p > q$



$$p^2 - 2p - 99 = 0$$

$$p \rightarrow (+11, -9) \quad q \rightarrow (-16, -9)$$

$$\left. \begin{array}{l} p > q \\ p = q \end{array} \right\} \underline{\underline{p \geq q}}$$

Question 5-

- (i)  $p^2 = 33$  of  $3 + 2p$
- (ii)  $q^2 + 25q + 144 = 0$

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



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Question 6- A person bought some article for Rs 10800. In which he sell  $\frac{2}{3}$  at 5% loss. At what percent profit should he sell the remaining article so that there is a profit of 13% on whole.

प्रश्न 6- एक व्यक्ति ने 10800 रुपये में कुछ वस्तु खरीदी। जिसमें वह  $\frac{2}{3}$  को 5% हानि पर बेचता है। उसे शेष वस्तु को कितने प्रतिशत लाभ पर बेचना चाहिए ताकि पूरे पर 13% का लाभ हो?

A. 19%

B. 21%

C. 29%

~~D. 49%~~

E. None of these

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$\frac{2}{7} \rightarrow -5\%$   
 $\frac{7}{7} \rightarrow \text{Total}$

$$\frac{2(-5) + 1(P)}{7} = 13$$

$$-10 + P = 39$$

$$P = \underline{\underline{49\%}}$$



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4700  
193Question 7- 40% of 1775 + (64)<sup>2</sup> + ~~348~~<sup>87</sup> ÷ 4 = ?प्रश्न 7- 1775 का 40% + (64)<sup>2</sup> + 348 ÷ 4 = ?

$$= \frac{2}{5} \times 1775 + 4096 + 87$$

$$= 710 + 4096 + 87$$

$$= \underline{\underline{4893}}$$

A. 4093

B. 4493

C. 5133

 D. 4893

E. None of these



Question 8-  $(20)^2 + (8)^3 + (1024)^{\frac{1}{5}} = (x)^2 - 3^2 \times 5$

$$[4^5]^{1/5}$$

$$= 4$$

$$400 + 512 + 4 + 45 = x^2$$

$$x^2 = 961$$

$$x = \underline{\underline{31}}$$

A. 61

B. 31

C. 961

D. 41

E. None of these



$$(30+3)(30-3)$$

Question 9-  $80\%$  of  $3545 + 33 \times 27 + \frac{1}{3}$  of  $4152 = ?$

प्रश्न 9-  $3545$  का  $80\% + 33 \times 27 + 4152$  का  $\frac{1}{3} = ?$

$$\begin{array}{r} 3000 \\ 1900 \\ 200 \\ \hline 5100 \\ \hline \end{array} = \frac{4}{5} \times 3545 + 891 + 1384$$

$$= 2836 + 891 + 1384$$

$$= \underline{\underline{5111}}$$

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A. 4111

B. 3111

C. 5111

D. 6111

E. None of these



Question 10-  $6\frac{1}{3} + 2\frac{3}{4} + 7\frac{2}{5} = ? + 3\frac{5}{6}$

$$x = 6\frac{1}{3} + 2\frac{3}{4} + 7\frac{2}{5} - 3\frac{5}{6}$$

$$= (6+2+7-3) + \left[ \frac{1 \times 20}{3 \times 20} + \frac{3 \times 15}{4 \times 15} + \frac{2 \times 12}{5 \times 12} - \frac{5 \times 10}{6 \times 10} \right]$$

$$= 12 + \left[ \frac{20}{60} + \frac{45}{60} + \frac{24}{60} - \frac{50}{60} \right] \Rightarrow 12 \frac{13}{20}$$

A.  $12\frac{11}{20}$

B.  $11\frac{13}{20}$

C.  $12\frac{13}{20}$

D.  $7\frac{1}{3}$

E. None of these



$$16 - 4^2$$

$$[4^3]^2$$

$$4^6$$

Question 11-  $4^4 \times 4^{16} \div 2^4 \times 64^2 = 2^?$

$$\frac{4^4 \times 4^{16}}{4^2} \times 4^6 = 2^x$$

$$2^x = 4^{24} \quad | \quad 2^x = 2^{48}$$
$$2^x = [2^2]^{24} \quad | \quad x = 48$$

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A. 16

B. 32

C. 34

D. 48

E. None of these



Question 12- In an election between two candidates 75% of the voters cast there votes out of which 2% declared invalid. A candidate got 9261 votes which were 75% of the valid votes. Find the total number of enrolled voters.

प्रश्न 12- दो उम्मीदवारों के बीच एक चुनाव में 75% मतदाताओं ने मतदान किया, जिसमें से 2% को अवैध घोषित कर दिया गया। एक उम्मीदवार को 9261 वोट मिले जो वैध वोटों का 75% था। नामांकित मतदाताओं की कुल संख्या ज्ञात कीजिए।

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A. 16000

B. 16400

C. 16800

D. 18000

E. None of these

① Let total votes  $\rightarrow$  1000

Vote cast  $\Rightarrow$  75% of 1000

750  
 $\downarrow$  -2%  
Valid votes  $\Rightarrow$  98% of 750

75% of 98% of 750 = 9261

$$\frac{3}{4} \times \frac{7}{50} \times \frac{5}{12} = \frac{3087}{9261}$$

$$1 = \frac{21 \times 4}{5}$$

$$1 = \frac{84}{5}$$

$$1000 = \frac{84}{5} \times 1000$$

$$= 16800$$





Question 13- P and Q can do a work in 60 days. However P is 40% more efficient than Q. If they together worked for 50 days then find time taken by Q to complete the remaining work.

प्रश्न 13- P और Q एक कार्य को 60 दिनों में कर सकते हैं। हालाँकि, P, Q की तुलना में 40% अधिक कुशल है। यदि वे एक साथ 50 दिनों तक काम करते हैं, तो Q द्वारा शेष कार्य को पूरा करने में लिया गया समय ज्ञात कीजिये।

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A. 20 days

~~B. 24 days~~

C. 30 days

D. 40 days

E. None of these



$$\textcircled{1} \quad P \quad Q$$

$$7 \quad 5$$

$$40\% = \frac{2}{5}$$

$$W = (7+5) \times 60$$

$$= 720$$

$$(P+Q) 50 \quad D = (7+5) \times 50$$

$$= 600$$

$$T_Q = \frac{720 - 600}{5}$$

$$= \frac{120}{5} = \underline{\underline{24 \text{ days}}}$$



Question 14- A bag contains 4 pink, 6 white, and 3 yellow balls. If three balls are drawn at random then what is the probability that no ball is white.

प्रश्न 14- एक बैग में 4 गुलाबी, 6 सफेद और 3 पीली गेंदें हैं। यदि तीन गेंदों को यादृच्छिक रूप से खींचा जाता है, तो कोई भी गेंद सफेद नहीं होने की प्रायिकता क्या है?

$$\textcircled{1} P(E) = \frac{{}^7C_3}{{}^{13}C_3} = \frac{7 \times 6 \times 5}{13 \times 12 \times 11} = \frac{30}{286}$$

- A. 31/221
- B. 21/286
- C. 35/286
- D. 41/83
- E. None of these



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Question 15- A boat takes 9 hours to cover a 810 km distance in downstream. If the speed of current is 40 km/hr then find distance covered by boat in 9 hours and 36 minutes in still water.

प्रश्न 15- एक नाव धारा के अनुकूल 810 किमी की दूरी तय करने में 9 घंटे का समय लेती है। यदि धारा की गति 40 किमी/घंटा है, तो स्थिर पानी में नाव द्वारा 9 घंटे और 36 मिनट में तय की गई दूरी ज्ञात कीजिये।

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A. 240 km

B. 300 km

C. 480 km

D. 500 km

E. None of these



$$\textcircled{1} \quad B + \underset{\substack{\downarrow \\ 40}}{W} = \frac{\cancel{810}}{\cancel{9}} = 90 \text{ km/hr.}$$

$$B = 90 - 40$$

$$B = 50 \text{ km/hr.}$$

$$D = \overset{16}{\cancel{50}} \times \underset{\substack{\cancel{40} \\ 5}}{\cancel{40}} \\ = \underline{\underline{480 \text{ km.}}}$$

$$9 \frac{\cancel{360}}{\cancel{60}} = \frac{480}{5} \text{ H.}$$

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Daily PDF of all YT sessions



Discussion / Doubt Solving



Direct Interaction with me



Quiz



Polls



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