



IBPS | BANK 2023



MAINS

MAGIC

EPISODE - 10



11:30 AM

SHUBHAM MAHENDRAS



UPCOMING ONLINE BATCHES

MARCH 2023

01 MARCH 2023

10:30 AM to 12:30 PM

SSC ONLINE LIVE CLASS

BILINGUAL

15 MARCH 2023

08:00 AM to 10:00 AM

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22 MARCH 2023

02:00 PM to 04:00 PM

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English & Bengali



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Real Champs-



Aalap 3 weeks ago

Superb session 🔥 Thank You sir 🙏

👍 2 💬 Reply

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Tanu Jain 3 weeks ago

Thank you sir for this amazing session.... phle to mains ke question dekh kar hi dar lagta tha but ab humko samaz bhi aata hai aur solve bhi hone lage hai 🙏🙏

👍 1 💬 Reply

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Shivangi Gupta 3 weeks ago

Wonderful session sir 🙏

👍 1 💬 Reply

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Niharika Jha 3 weeks ago

Superb session sir ✨ ✨ 🔥 🔥

Real Champs-



Nitu Maurya 3 weeks ago

Wonderful session sir .. thanku so much 🙏

👍 1 💬 Reply

▼ 1 reply



Arjoo Srivastava 3 weeks ago

Wonderful amazing session sir 😊 😊

👍 1 💬 Reply

▼ 1 reply



monika kumari 3 weeks ago

Thank you sir 🙏

Sir aapke method ko salute 🍷 🍷

Gajab manis magic ✨ 🔥 🔥 👍 👍 👍

👍 1 💬 Reply

▼ 1 reply



Surbhi Sinha 3 weeks ago

Thank you sir 👍 for this brilliant session 👍 it's helpful to me phele toh lgta ki mains k Question kaise solve hoga hard hoga But apke teaching style bahut different isliye saare questions sahi solve ho rha h jaldi hi improve hoga

👍 1 💬 Reply

Real Champs-



harsh sharma 3 weeks ago

Thank you sir today's session is amazing

Sir..... ..sir aapne jo first question Kiya h nause aap equation ke factor me divide \div karna bhul gaye ho

First equation.. A... $60/4=15$

Second eq....B..... $54/3=18$

Third eq...C ... $70/5=14$

Answer is 25

Thank you so much sir sab ye sab aapse hi sikha h 🥰🥰👍👍👍👍👍👍



Direction: In the following questions three equations are given in variables x. Third equation is equal to the sum of the first two equations. You have to solve the questions based on given information.

I. $ax^2 + bx + 4 = 0$

II. $ax^2 + 3x + c = 0$

III. $2x^2 + 7x + \sqrt{49 - 13}$

What is the value of (b + c)?



1. 2

2. 5

3. 6

4. 9

5. 11

The quadratic equations $x^2 - 6x + m = 0$ and $x^2 - nx + 6 = 0$ have one root in common and the other roots of equations (i) and (ii) are integers in the ratio of 4 : 3 then, what is the following statement is correct?



1. 'm' and 'n' are co - prime to each other.
2. Value of $n = 7$
3. Difference between roots of equation (i) is 1.
4. Difference between the roots of equation (ii) is 2.
5. $m^2 - n^2$ is divisible by 11

$$(i) x^2 - px - (6p + 2) = 0$$

$$(ii) x^2 - qx + (3q + 7) = 0$$

The difference between the roots of equation (i) is 15. If One root of equations (i) and (ii) is common and $p, q > 0$, then which of the following statement is true?

1. Product of roots of equation (ii) = 54
2. Sum of roots of equation (i) = 8
3. The common root between both equations is 11.
4. Product of roots of equation (i) = 44
5. Sum of roots of equation (ii) = 15





A solid sphere is melted down and three right circular cylinders X,Y and Z are formed. Volume (in M^3) of each cylinder is different.

Table given below shows the difference of radius (in M) of each cylinder from that of the sphere, from which they are formed.

Note:- Ratio of volume of the sphere to its surface are = 7: 1



Cylinders	Difference between radius of sphere and radius of cylinder
X	7
Y	14
Z	5

Find the sum of volume of cylinder X and Y if the height of both are equal to Radius of the cylinder X ?



Cylinders	Difference between radius of sphere and radius of cylinder
X	7
Y	14
Z	5

1. 10780 m³
2. 12780 m³
3. 15780 m³
4. 16780 m³
5. 18780 m³

Cylinder Z is melted down and 231 cubes of equal volume are formed. If the side of each cube is 4 M, then, find the height of cylinder Z ?



Cylinders	Difference between radius of sphere and radius of cylinder
X	7
Y	14
Z	5

1. 12.22M
2. 11.11M
3. 19.26M
4. 18.37M
5. 20.22 M



Direction: Study the following table given below carefully and answer the question based on it.

The table given below shows the data about the university election conduct in every three years.

Year	Total number of votes cast	Total number of invalid votes	Ratio of valid votes cast by male to females
2000	-	8%	-
2003	1200	5%	-
2006	1500	10%	-
2009	1750		7 : 5
2012	-	20%	7 : 9



If in 2003, the number of valid votes of males is 540 then what will be the ratio of valid votes of male to female in 2003?



Year	Total number of votes cast	Total number of invalid votes	Ratio of valid votes cast by male to females
2000	-	8%	-
2003	1200	5%	-
2006	1500	10%	-
2009	1750		7 : 5
2012	-	20%	7 : 9

1. 9 : 10
2. 10 : 9
3. 7 : 9
4. 9 : 7
5. 5 : 4



Total number of valid votes casted by female in 2009 is 550 then find the number of invalid votes in 2009?



Year	Total number of votes cast	Total number of invalid votes	Ratio of valid votes cast by male to females
2000	-	8%	-
2003	1200	5%	-
2006	1500	10%	-
2009	1750		7 : 5
2012	-	20%	7 : 9

1. 430
2. 450
3. 470
4. 490
5. 510



If total number of casted votes in 2006 is 50% more than in 2000 then find the number of valid votes in 2000?



Year	Total number of votes cast	Total number of invalid votes	Ratio of valid votes cast by male to females
2000	-	8%	-
2003	1200	5%	-
2006	1500	10%	-
2009	1750		7 : 5
2012	-	20%	7 : 9

1. 860
2. 920
3. 960
4. 1050
5. 1120



The difference of valid votes of male to female in 2012 is 240 then finds the number of invalid votes in 2012 election?



1. 450
2. 480
3. 490
4. 520
5. 640

Year	Total number of votes cast	Total number of invalid votes	Ratio of valid votes cast by male to females
2000	-	8%	-
2003	1200	5%	-
2006	1500	10%	-
2009	1750		7 : 5
2012	-	20%	7 : 9



In 2006 if the ratio of valid votes to male to female is 3 : 2 then the number of valid votes of female is what percentage of total casted votes in 2006?



Year	Total number of votes cast	Total number of invalid votes	Ratio of valid votes cast by male to females
2000	-	8%	-
2003	1200	5%	-
2006	1500	10%	-
2009	1750		7 : 5
2012	-	20%	7 : 9

1. 25%
2. 30%
3. 36%
4. 45%
5. 50%