



MISSION BANK 2024



MATHS

आरंभ बैच

SIMPLIFICATION

PART 2

Concept + MCQ

लग जाओ 2024 के लिए

Day-2

LIVE 08:00 AM





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Question 1- 14.28% of 4200 + 42.84% of 2100 + 23.23% of 39600 = ?

प्रश्न 1- 4200 का 14.28% + 2100 का 42.84% + 39600 का 23.23% = ?

$$14\frac{2}{7}\% = \frac{1}{7}\%$$

$$\frac{23}{99}$$

$$\begin{aligned} & \frac{1}{7} \times 4200 + \frac{3}{7} \times 2100 + \frac{23}{99} \times 39600 \\ &= 600 + 900 + 9200 \\ &= \underline{\underline{10700}} \end{aligned}$$

A. 10400

B. 10700

C. 10500

D. 10100

E. None of these



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Question 2- 11.11% of 8100 + 23.23% of 9900 = ?

प्रश्न 2- 8100 का 11.11% + 9900 का 23.23% = ?

$$11.11\% = \frac{1}{9}$$

$$23.23\% = \frac{2}{9}$$

$$\frac{1}{9} \times 8100 + \frac{23}{99} \times 9900$$

$$= 900 + 2300$$

$$= \underline{3200}$$

A. 2200

B. 1100

C. 3220

D. 3200

E. None of these



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Question 3- $[(4/5 \text{ of } 400 + 2/7 \text{ of } 252) - (45 \times 2 + 120 \times 5/8)] = ?$

प्रश्न 3- $[(400 \text{ का } 4/5 + 252 \text{ का } 2/7) - (45 \times 2 + 120 \times 5/8)] = ?$

$$\frac{4}{5} \times 400 = 80$$

$$= (320 + 72) - (90 + 75)$$

$$= 392 - 165$$

$$= \underline{\underline{227}}$$

A. 557

B. 457

~~C. 227~~

D. 667

E. None of these



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Question 4- ~~40%~~ of ~~880~~ - 33.33% of 330 + ? = 100

प्रश्न 4- 880 का 40% - 330 का 33.33% + ? = 100

$$33.33\% = \frac{1}{3}$$

$$352 - \frac{1}{3} \times 330 - 100 = -x$$

$$-x = 352 - 210$$

$$= \underline{\underline{-142}}$$

A. 100

B. 132

C. -132

D. 142

E. None of these



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Question 5- What approximate value come in place of ?

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प्रश्न 5- ? स्थान पर अनुमानित मान आएगा?

$$24.92 + 4(6.18 \times 9.97) - (17.92 \div 5.99) = ?$$

$$\begin{array}{r} \approx \\ \textcircled{241} \\ 24 \end{array}$$

$$\begin{aligned} x &= 25 + 240 - 3 \\ &= 265 - 3 \\ &= \underline{\underline{262}} \end{aligned}$$

A. 160

B. 180

~~C. 262~~

D. 300

E. None of these



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Question 6- What approximate value come in place of ?

प्रश्न 6- ? स्थान पर अनुमानित मान आएगा?

$$249.99\% \text{ of } \sqrt{6083.91} + (29.89\% \text{ of } 2249.94) \div 4.95 = ?$$

$$\sqrt{6083.91} \text{ का } 249.99\% + (2249.94 \text{ का } 29.89\%) \div 4.95 = ?$$

□□□

A. 300

B. 370

C. 130

D. 330

E. 430

$7^2 = 49$
 $8^2 = 64$
 30
 $\sqrt{6084}$
 $\rightarrow 8/72$

$$250\% =$$

$$\frac{250}{100} = 2.5$$

$$\begin{aligned} x &= \frac{5}{2} \times 78 + [30\% \text{ of } 2250] \div 5 \\ &= 195 + \frac{675}{5} \\ &= 195 + 135 \\ &= 330 \end{aligned}$$



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$$(96)^2 =$$

$$\begin{array}{r} 8136 \\ 108 \\ \hline 9216 \end{array}$$

$$\sqrt{4356} = 66$$

$6^2 = 36$
 $7^2 = 49$
 $6 \times 7 = 42$

Question 7- $\underline{96^2} + \underline{\sqrt{4356}} - \underline{102 \times 106} = ?$

$$= 9216 + 66 - 10812$$

$$= 9282 - 10812$$

$$= \underline{\underline{-1530}}$$

- $102 \rightarrow +2$
 $106 \rightarrow +6$
 $100 \quad 12$
- A. -1230
 - B. -1430
 - C. -1530
 - D. -1630
 - E. None of these



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$34^2 = 1156$
 30
 0916
 $\underline{24}$
 1156
 $(96)^2 =$
 8136
 $\underline{108}$
 9216

2200
 $\underline{133}$
 2333

Question 8- 60% of $1775 + (34)^2 + 448 \div 4 = ?$

प्रश्न 8- 1775 का $60\% + (34)^2 + 448 \div 4 = ?$

$x = \frac{3}{5} \times 1775 + 1156 + 112$
 $= 1065 + 1156 + 112$
 $= \underline{\underline{2333}}$

- A. 1233
- B. 2233
- ~~C. 2333~~
- D. 3433
- E. None of these



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$$(40+3)(40-3)$$

$$(a+b)(a-b) = a^2 - b^2$$

$$\begin{array}{r} 2900 \\ 190 \\ \hline 3090 \end{array}$$

Question 9- 40% of 3545 + 43×37 + $\frac{1}{3}$ of 243 = ?

प्रश्न 9- 3545 का 40% + 43×37 + $\frac{1}{3}$ का 243 = ?

$$\begin{aligned} & \frac{2}{5} \times 3545 + 1591 + 81 \\ & = 1418 + 1591 + 81 \\ & = \underline{\underline{3090}} \end{aligned}$$

A. 1090

B. 2090

~~C. 3090~~

D. 4090

E. None of these



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Question 10- ^{15x3} $45 \times 15 + 8^2 - ? = 46 \times 2$

$$675 + 64 - 92 = x$$

$$x = 739 - 92$$

$$x = \underline{\underline{647}}$$

A. 147

B. 547

~~C. 647~~

D. 447

E. None of these



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Question 11- $\overline{333}(\underline{33}) + \overline{33}(\underline{33}) + 32 - 1.44 = ?$

$$= \underline{366} \underline{66} + \underline{32} - 1.44$$

$$= 398.66 - 1.44$$

$$= \underline{\underline{397.22}}$$

A. 197.22

B. 497.22

C. 434.22

D. 397.22

E. None of these

396.22



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$$(a^m)^n = a^{m \times n}$$

$$\begin{array}{r}
 36 \times 1 \\
 11 \times 2 \\
 \hline
 = 11^3 \\
 \hline
 \begin{array}{r}
 2800 \\
 40 \\
 \hline
 2840 \\
 -30 \\
 \hline
 \end{array}
 \end{array}$$

Question 12- $[11^6]^{\frac{1}{2}} + \cancel{111 \div 37} - \cancel{231 \div 7} + 3 \times \cancel{2012 \div 4} = ?$

$$= \underline{1331} + \overbrace{3}^{-30} - \cancel{33} + \underline{1509}$$

$$= \underline{\underline{2810}}$$

- A. 2911
- B. 2951
- C. 2917
- ~~D. 2810~~
- E. None of these



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Question 13- $\sqrt[3]{493039000} + \frac{(3500 + 7000) \div 35}{5 + 5 \div 5} \times 216 = ?$

$7^3 = 343$
 $8^3 = 512$
 $\sqrt[3]{493039}$
 \downarrow
 79

$x = 790 + \frac{350}{6} \times 216$
 $= 790 + 10800$
 $= \underline{\underline{11570}}$

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- $\frac{300}{V}$
 A. 11590 ✓
 B. 22190 ✓
 C. 11570 ✓
 D. 23590 ✓
 E. None of these ✓



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Question 14- $6\frac{1}{3} + 2\frac{3}{4} + 7\frac{2}{5} = ? + 3\frac{5}{6}$

Home work

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

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

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

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

E. None of these



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Question 15- $\sqrt{2116} + \sqrt{7744} + \sqrt[3]{2197} = ?$

$$\sqrt{2116} \\ 46 \quad | \quad 44$$

$$= 46 + 88 + 13 \\ = \underline{\underline{147}}$$

$$88 \quad | \quad 82 \\ 8 \\ 9 \\ 1^3 = 1 \\ 2^3 = 8$$

- A. 127
- ~~B. 147~~
- C. 157
- D. 257
- E. None of these

$$4^2 = 16 \\ 5^2 = 25 \\ 4 \times 5 = 20$$

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$$21^2 = 441$$

Question 16- $\frac{4}{21}$ of ~~441~~²¹ + $8400 \times 2 \div 42 - 20\%$ of ~~1500~~ + 175% of 40 = ?

प्रश्न 16- 441 का $\frac{4}{21}$ + $8400 \times 2 \div 42 - 1500$ का 20% + 40 का 175% = ?

$$= 84 + \frac{8400 \times 2}{42} - 300 + \frac{7}{4} \times 40$$

$$= 484 - 300 + 70$$

$$= 184 + 70$$

$$= \underline{\underline{254}}$$

A. 154

B. 166

~~C. 254~~

D. 354

E. None of these

$$\frac{175}{100} = \frac{7}{4}$$

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What approximate value come in place of ?

? के स्थान पर अनुमानित मान क्या आएगा?

Question 17- $31.88^{\frac{1}{5}} \times 80.99^{\frac{1}{4}} \times 5.13^2 = ? \times 2.04$

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$$\left(\frac{32}{2}\right)^{\frac{1}{5}} \times \left(\frac{81}{4}\right)^{\frac{1}{4}} \times 25 = 2x$$

$$(32)^{\frac{1}{5}} \times (81)^{\frac{1}{4}} \times 25 = 2x$$

$$2x = 2 \times 3 \times 25$$

$$2x = 150$$

$$x = \underline{\underline{75}}$$

A. 150

B. 100

~~C. 75~~

D. 25

E. None of these



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What approximate value come in place of ?

? के स्थान पर अनुमानित मान क्या आएगा?

Question 18- $75 \times 75 + 125\% \text{ of } 400 - 120\% \text{ of } 510 = ?$

प्रश्न 18- $75 \times 75 + 400$ का 125% - 510 का 120% = ?

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$$75 = 70 + 5$$

$$75^2 = (70 + 5)^2 = 70^2 + 2 \times 70 \times 5 + 5^2 = 4900 + 700 + 25 = 5625$$

$$125\% \text{ of } 400 = \frac{5}{4} \times 400 = 500$$

$$120\% \text{ of } 510 = \frac{6}{5} \times 510 = 612$$

$$5625 + 500 - 612 = 5513$$

$$= 5625 + 500 - 612$$

$$= 5625 - 112$$

$$= \underline{\underline{5513}}$$

- A. 4413
- B. 2213
- C. 5513
- D. 6613
- E. None of these



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