

**Course: IBPS PO Pre**

**Subject: : Approximation**

Time:10 Minutes

Published Date: 28<sup>th</sup> August 2020

Directions (1-15): निम्नलिखित प्रश्नों में प्रश्नवाचक चिन्ह (?) के स्थान पर क्या अनुमानित मान आना चाहिए, (सटीक मान की गणना करना अपेक्षित नहीं है।)

Q1.  $7429.98 \div 300.02 \times 10.004 = ?$

- (a) 256
- (b) 251
- (c) 258
- (d) 248
- (e) 266

L1Difficulty 2

QTagsApproximation

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Q2.  $15.2\% \text{ of } 725 + 12.8\% \text{ of } 643 = ?$

- (a) 110
- (b) 192
- (c) 172
- (d) 196
- (e) 207

L1Difficulty 2

QTagsApproximation

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Q3.  $(36.04)^2 - (21.08)^2 = ?$

- (a) 888
- (b) 855
- (c) 846
- (d) 871
- (e) 865

L1Difficulty 2

QTagsApproximation

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Q4.  $\sqrt[3]{728} \times \sqrt{485} = ?$

- (a) 150
- (b) 180
- (c) 190

(d) 200

(e) 198

L1Difficulty 2

QTagsApproximation

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Q5.  $496 \div 0.6 \times 0.5 = ?$

(a) 413

(b) 595

(c) 148

(d) 653

(e) 498

L1Difficulty 2

QTagsApproximation

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Q6.  $\left[\left(\frac{3}{8} \times \frac{14}{2}\right) \div (2.5 - 0.8)\right]^2 = ?$

(a) 1.6

(b) 2.4

(c) 4.1

(d) 5.2

(e) 6.8

L1Difficulty 2

QTagsApproximation

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Q7.  $2418.065 + 88 \div 14.2 \times 6 = ?$

(a) 2470

(b) 2465

(c) 2460

(d) 2450

(e) 2455

L1Difficulty 2

QTagsApproximation

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Q8.  $564.866 + 82.1091 \times 44.881 - 34.111 = ?$

(a) 4650

(b) 4350

(c) 4250

(d) 4220

(e) 4400

L1Difficulty 2

QTagsApproximation

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Q9.  $\sqrt[3]{64002} + (46.85)^2 = ?$

- (a) 2090
- (b) 2100
- (c) 2250
- (d) 2175
- (e) 2325

L1Difficulty 2

QTagsApproximation

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Q10.  $125\% \text{ of } 4875 + 88.005 \times 14.995 = ?$

- (a) 7395
- (b) 7490
- (c) 7510
- (d) 7375
- (e) 7415

L1Difficulty 2

QTagsApproximation

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Q11.  $63.5\% \text{ of } 8924.2 + ? \% \text{ of } 5324.4 = 6827.5862$

- (a) 36
- (b) 22
- (c) 17
- (d) 31
- (e) 9

L1Difficulty 2

QTagsApproximation

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Q12.  $\frac{5}{8} \text{ of } 4011.33 + \frac{7}{10} \text{ of } 3411.22 = ?$

- (a) 4810
- (b) 4980
- (c) 4890
- (d) 4930
- (e) 4850

L1Difficulty 2

QTagsApproximation

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Q13.  $8787 \div 343 \times \sqrt{50} = ?$

- (a) 180
- (b) 185
- (c) 195
- (d) 190
- (e) 175

L1Difficulty 2

QTagsApproximation

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Q14.  $\sqrt{1296.12} \times (303 \div 8) = (?)^2$

- (a) 18
- (b) 28
- (c) 48
- (d) 37
- (e) 58

L1Difficulty 2

QTagsApproximation

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Q15.  $5940 \div 28 \div 6 = ?$

- (a) 40
- (b) 35
- (c) 46
- (d) 52
- (e) 27

L1Difficulty 2

QTagsApproximation

QCreator Deepak Rohilla

## Solutions

S1. Ans.(d)

Sol.

$$? \simeq \frac{7430}{300} \times 10$$

$$? \simeq 247.66$$

$$? \simeq 248$$

S2. Ans.(b)

Sol.

$$? \simeq \frac{15}{100} \times 725 + \frac{13}{100} \times 643$$

$$? \simeq 192.34$$

$$? \simeq 192$$

S3. Ans.(b)

Sol.

$$? \simeq (36)^2 - (21)^2$$

$$? \simeq 15 \times 57$$

$$? \simeq 855$$

S4. Ans.(e)

Sol.

$$? \simeq \sqrt[3]{729} \times \sqrt{484}$$

$$\simeq 9 \times 22$$

$$\simeq 198$$

S5. Ans.(a)

Sol.

$$? \simeq \frac{496}{0.6} \times 0.5$$

$$? \simeq 413.33$$

$$? \simeq 413$$

S6. Ans.(b)

Sol.

$$\left[ \left( \frac{3}{8} \times \frac{14}{2} \right) \div (2.5 - 0.8) \right]^2$$

$$= \left[ \frac{21}{8} \div 1.7 \right]^2$$

$$= \left( \frac{2.625}{1.7} \right)^2 \approx (1.5)^2$$

$$\approx 2.4$$

S7. Ans.(e)

Sol.

$$2418.065 + 88 \div 14.2 \times 6$$

$$\approx 2418 + 6 \times 6$$

$$= 2454 \approx 2455$$

S8. Ans.(d)

Sol.

$$\begin{aligned} & 564.866 + 82.1091 \times 44.881 - 34.111 \\ & \approx 565 + 3690 - 34 \\ & \simeq 4220 \end{aligned}$$

S9. Ans.(c)

Sol.

$$\begin{aligned} & \sqrt[3]{64001} + (46.85)^2 \\ & \approx 40 + 47^2 \\ & = 2209 + 40 \\ & \approx 2250 \end{aligned}$$

S10. Ans.(e)

Sol.

$$\begin{aligned} & \frac{5}{4} \times 4875 + 88 \times 15 \simeq 5 \times 1219 + 1320 \\ & \simeq 6095 + 1320 \simeq 7415 \end{aligned}$$

S11. Ans.(b)

Sol.

$$\begin{aligned} & \approx 63.5\% \text{ of } 8920 + ? \% \text{ of } 5320 = 6830 \\ & \approx 5320 \times ? = (6830 - 5664) \times 100 \\ & ? \approx 22 \end{aligned}$$

S12. Ans.(c)

Sol.

$$\begin{aligned} & \approx \frac{5}{8} \text{ of } 4012 + \frac{7}{10} \text{ of } 3410 \\ & \approx 2507 + 2387 \\ & = 4894 \approx 4890 \end{aligned}$$

S13. Ans.(a)

Sol.

$$\begin{aligned} & 8787 \div 343 \times \sqrt{50} \\ & \approx 25.6 \times \sqrt{49} \\ & = 179.2 \approx 180 \end{aligned}$$

S14. Ans.(d)

Sol.

$$\begin{aligned}\sqrt{1296} \times (303 \div 8) &= (?)^2 \\ \Rightarrow 37 \times 37 &\simeq ?^2 \\ \Rightarrow ? &\simeq 37\end{aligned}$$

S15. Ans.(b)

Sol.

$$\begin{aligned}5940 \div 28 \div 6 \\ = 35.35 \approx 35\end{aligned}$$