

Quiz Date: 30th May 2020

Directions (1-5): **What approximate value will come in place of the question mark (?) in the following questions? (You are not expected to calculate the exact value.)**

Q1. $\frac{150}{17} \times \frac{199}{13} \div \frac{16}{91} = ?$

- (a) 650
- (b) 700
- (c) 770
- (d) 820
- (e) 850

Q2. $151.011 - 419.999 + 649.991 = ?$

- (a) 380
- (b) 420
- (c) 350
- (d) 410
- (e) 360

Q3. $1299 \div 19.99 \times 25.01 + 400.01 = ?$

- (a) 2025
- (b) 2300
- (c) 1925
- (d) 2200
- (e) 1700

Q4. $\sqrt{5183.98} \div \sqrt{36} = ?$

- (a) 21
- (b) 6
- (c) 12
- (d) 18
- (e) 26

Q5. $48.01 \times 34.9 \div 2.95 = ?$

- (a) 576
- (b) 591
- (c) 582
- (d) 553
- (e) 560

Directions (6-15): What will come in place of question mark (?) in the following questions?

Q6. $8743 + 486 \div 18 \times 148 = ?$

- (a) 13729

- (b) 12739
- (c) 12729
- (d) 13279
- (e) 14279

Q7. $6348 + 8515 - 695 - ? = 4312 + 2162$

- (a) 7394
- (b) 7943
- (c) 7439
- (d) 7434
- (e) 7694



Q8. $18.6 \times 3 + 7.2 - 16.5 = ? + 21.7$

- (a) 35.7
- (b) 21.6
- (c) 24.8
- (d) 27.6
- (e) 33.6

Q9. $56\% \text{ of } 225 + 20\% \text{ of } 150 = ? - 109$

- (a) 149
- (b) 103
- (c) 253
- (d) 247
- (e) 265

Q10. $80\% \text{ of } 650 - 25\% \text{ of } ? = 60\% \text{ of } 440$

- (a) 1210
- (b) 1024
- (c) 1035
- (d) 1004
- (e) 1008

Q11. $13\% \text{ of } 1100 + 17\% \text{ of } 2100 = ? + 26\% \text{ of } 350$

- (a) 409
- (b) 411

- (c) 413
 (d) 415
 (e) 417

$$\frac{1}{3} \text{ of } ? + \frac{4}{7} \text{ of } \frac{11}{14} \text{ of } 539 = 31\% \text{ of } 2000$$

- Q12.
 (a) 1234
 (b) 1134
 (c) 1186
 (d) 1143
 (e) 1320

Q13. $\sqrt[4]{62,50,000} - \sqrt[3]{3375} = \sqrt{?}$

- (a) 1296
 (b) 1156
 (c) 1369
 (d) 1225
 (e) 1245

Q14. $1\frac{2}{5} + 2\frac{1}{7} = ? + 2\frac{1}{2}$

- (a) $3\frac{3}{70}$
 (b) $3\frac{4}{35}$
 (c) $2\frac{3}{70}$
 (d) $1\frac{17}{70}$
 (e) $1\frac{3}{70}$

Q15. $\sqrt{3136} + \sqrt{625} = ?^2$

- (a) 8
 (b) 11
 (c) 9
 (d) 7
 (e) 15

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Solutions

S1. Ans.(c)

Sol.

$$? \simeq \frac{150}{17} \times \frac{200}{13} \times \frac{91}{16}$$

$$? \simeq 772.05$$

$$? \simeq 770$$

S2. Ans.(a)

Sol.

$$? \simeq 151 - 420 + 650$$

$$? \simeq 381$$

In options, the nearest value is 380

S3. Ans.(a)

Sol.

$$? \simeq 1300 \div 20 \times 25 + 400$$

$$? \simeq 2025$$

S4. Ans.(c)

Sol.

$$? \simeq \sqrt{5184} \div \sqrt{36}$$

$$? \simeq 72 \div 6$$

$$? \simeq 12$$

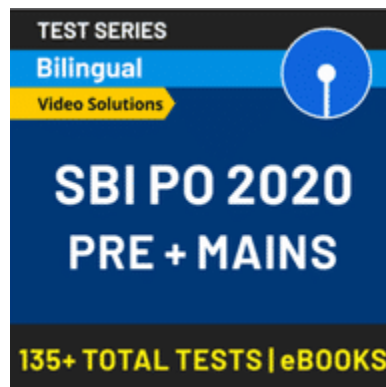
S5. Ans.(e)

$$? \simeq 48 \times 35 \div 3$$

Sol. $? \simeq 560$

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S6. Ans.(b)

Sol.

$$? = 8743 + 27 \times 148 = 8743 + 3996 = 12739$$

S7. Ans.(e)

Sol.

$$14168 - ? = 6474$$

$$\text{Or, } ? = 14168 - 6474 = 7694$$

S8. Ans.(c)

Sol.

$$? = 55.8 + 7.2 - 38.2 = 24.8$$

S9. Ans.(e)

Sol.

$$? = 126 + 30 + 109 = 265$$

S10. Ans.(b)

Sol.

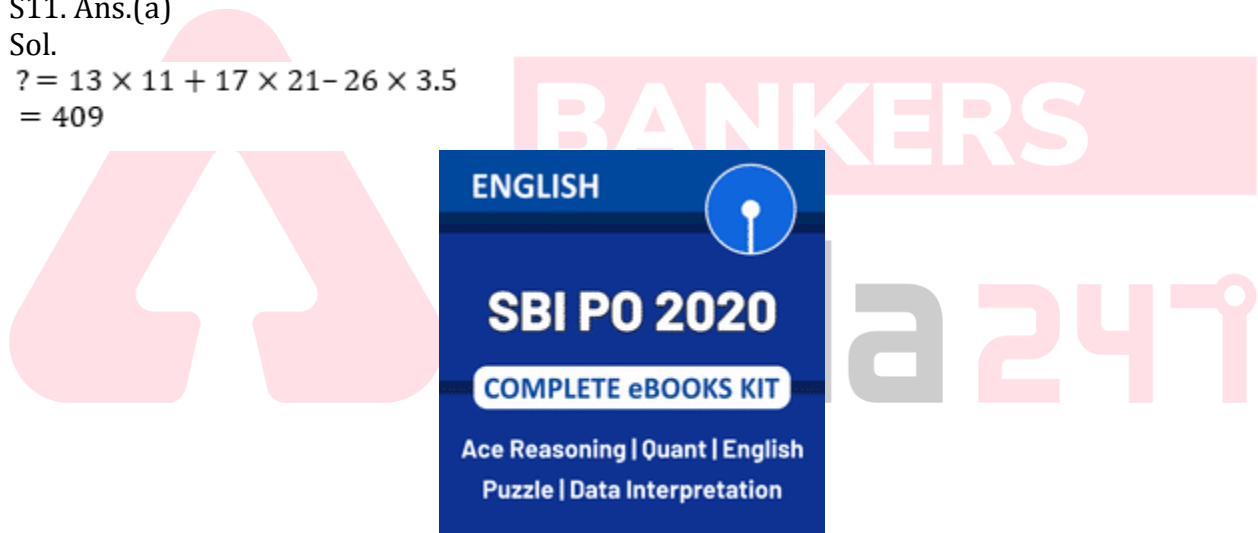
$$25\% \text{ of } ? = 520 - 264$$

$$\text{Or, } ? = 256 \times \frac{100}{25} = 1024$$

S11. Ans.(a)

Sol.

$$? = 13 \times 11 + 17 \times 21 - 26 \times 3.5 \\ = 409$$



S12. Ans.(b)

Sol.

$$\frac{1}{3} \times ? + \frac{4}{7} \times \frac{11}{14} \times 539 = 31 \times 20$$

$$? = 378 \times 3 \\ = 1134$$

S13. Ans.(d)

Sol.

$$\sqrt{?} = 50 - 15 \\ = 35$$

$$\therefore ? = 1225$$

S14. Ans.(e)

Sol.

$$\begin{aligned} ? &= (1 + 2 - 2) + \frac{2}{5} + \frac{1}{7} - \frac{1}{2} \\ &= 1 + \frac{3}{70} \\ &= 1 \frac{3}{70} \end{aligned}$$

S15. Ans.(c)

Sol.

$$\begin{aligned} ?^2 &= 56 + 25 \\ &= 81 \\ \therefore ? &= \pm 9 \end{aligned}$$



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