

VIDEO COURSES

for Government Exams



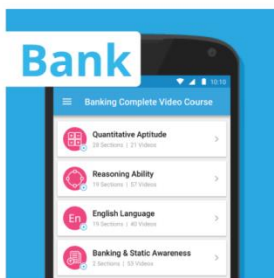
From the oldest and most trusted name in Exam Preparation which gave us Career Power, Bankersadda, Sscadda, here is the latest offering – Video Courses that are tailor-made for the Govt. Job aspirants of digital India. Various banking and SSC exams are conducted online with regular changes to exam pattern and level of questions. We understand the changing needs of the students and have devised a unique solution, making preparation easy, cost-effective and efficient.

Video courses for banking and SSC consist of exhaustive video lectures for government exams which are pre-loaded on an SD card. We offer these courses in two variants: [Android Tab + SD-Card] or [SD Card only]. The SD Card can be run on your personal android device as well. The video courses will run on the Adda247 mobile app, the number one App for Bank and SSC exam preparation.

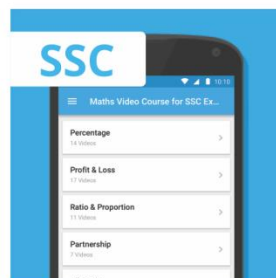
What you get?



Available Courses



Banking Complete Video Course



Maths Video Course for SSC Exams



Maths + English Video Course for SSC Exams



SSC Complete Video Course

To Purchase visit : elearning.adda247.com

For any query : Call us at +91-90691 42412 • Email us at elearning@adda247.com

Solutions

S1. Ans.(a)

Sol. Here, $\frac{5^2 \times 14 + 1450}{5} = 1998 \div x$

We apply the BODMAS rule to solve this expression.

$$\Rightarrow \frac{350 + 1450}{5} = 1998 \div x$$

$$\Rightarrow \frac{1800}{5} = 1998 \div x$$

$$x = 5.55$$

S2. Ans.(a)

Sol. Here, $1\frac{1}{3} + 2\frac{1}{6} - 3\frac{1}{9} = 1 \div x$

$$\Rightarrow \frac{4}{3} + \frac{13}{6} - \frac{28}{9} = 1 \div x$$

$$\Rightarrow \frac{24 + 39 - 56}{18} = 1 \div x$$

$$\Rightarrow \frac{7}{18} = 1 \div x$$

$$\Rightarrow x = \frac{18}{7} = 2\frac{4}{7}$$

S3. Ans.(c)

Sol. Here,

$$\frac{9}{13} \text{ of } 221 + 1\frac{4}{9} \text{ of } 378 = 241 + ?$$

$$\Rightarrow 9 \times 17 + 13 \times 42 = 241 + ?$$

$$\Rightarrow 153 + 546 = 241 + ?$$

$$\Rightarrow x = 458$$

S4. Ans.(b)

Sol. Here, we apply the BODMAS rule as follows

$$(4444 \div 40) + (645 \div 25) + (3991 \div 26) = ?$$

$$= 111.1 + 25.8 + 153.5 = 290.4$$

S5. Ans.(a)

Sol. Here,

$$[(15.5 \times 28) \div 16 - 1230 \div 240] = ? \times 5$$

$$\Rightarrow 434 \div 16 - 5.125 = ? \times 5$$


$$\Rightarrow 27.125 - 5.125 = ? \times 5$$

$$\Rightarrow 22 = ? \times 5$$

$$\Rightarrow ? = \frac{22}{5}$$

$$= 4.4$$





IBPS RRB (PO+CLERK)
COMBO

170 TOTAL TESTS

- 70 Full Length Mocks
- 100 Practice Sets Bilingual
- E-Books, Study Notes etc.

S6. Ans.(b)**Sol.** Here,

$$37.5 \div \left[\frac{1}{2} \text{ of } (24 + 33) - 13 \frac{1}{2} \right] = ?$$

$$\Rightarrow 37.5 \div \left[\frac{1}{2} \times 57 - \frac{27}{2} \right]$$

$$\Rightarrow 37.5 \div \left[\frac{57 - 27}{2} \right]$$

$$\Rightarrow 37.5 \div 15$$

$$\Rightarrow ? = 2.5$$

S7. Ans.(a)**Sol.** Here, we add the integral and fractional part separately and follow the order of BODMAS.

$$\text{So, } 4 + \frac{1}{2} - \left(2 + \frac{5}{6} \right) + 1 + \frac{7}{12} = ?$$

$$\Rightarrow (4 - 2 + 1) + \left(\frac{-5}{6} + \frac{7}{12} + \frac{1}{2} \right) = ?$$

$$\Rightarrow ? = 3 + \left(\frac{-10 + 7 + 6}{12} \right) = 3 + \frac{1}{4} = \frac{13}{4}$$

$$= 3 \frac{1}{4}$$

S8. Ans.(b)

$$\text{Sol. Here, } 5 \frac{17}{37} \times 4 \frac{51}{52} \times 11 \frac{1}{7} + 2 \frac{3}{4}$$

$$= \frac{202}{37} \times \frac{259}{52} \times \frac{78}{7} + \frac{11}{4}$$

Here, we allow the order of BODMAS

$$? = \frac{202 \times 7 \times 78}{52} + \frac{11}{4}$$

$$\Rightarrow ? = \frac{101 \times 6}{2} + \frac{11}{4}$$

$$? = \frac{1212 + 11}{4} = \frac{1223}{4}$$

$$= 305.75$$

S9. Ans.(a)**Sol.** Here,

$$\frac{(216)^{1/3} \times 26^4 \times (39)^4}{(12)^4 \times 3 \times 2^{-3}} = 13^x$$

$$\Rightarrow \frac{6 \times 2^4 \times 3^4 \times 13^8}{(2 \times 6)^4 \times 3 \times 2^{-3}} = 13^x$$

$$\Rightarrow \frac{6 \times 6^4 \times 13^8}{6 \times 6^4} = 13^x$$

$$\Rightarrow 13^8 = 13^x \Rightarrow x = 8$$



S10. Ans.(c)**Sol.** Here, $[(144)^2 \div 48 \times ?] \div 22 = 216$

We follow the BODMAS rule,

$$\text{So, } \left[\frac{144 \times 144}{48} \times ? \right] \div 22 = 216$$

$$\Rightarrow (432 \times ?) \div 22 = 216$$

$$\Rightarrow (432 \times ?) = 216 \times 22$$

$$\Rightarrow ? = \frac{216 \times 22}{432} = 11$$

S11. Ans.(b)**Sol.** Here, $(35)^2 \div \sqrt[3]{125} + (25)^2 \div 125 = ?$

$$\Rightarrow 1225 \div 5 + 625 \div 125 = ?$$

Applying the BODMAS rule to solve the expression we get

$$1225 \div 5 + 5 = ?$$

$$\Rightarrow 245 + 5 = ? \Rightarrow ? = 250$$

S12. Ans.(e)**Sol.** Here,

$$(?)^2 + (65)^2 = (160)^2 - (90)^2 - 7191$$

$$\Rightarrow (?)^2 = (160)^2 - (90)^2 - 7191 - (65)^2$$

$$\Rightarrow (?)^2 = 25600 - (8100 + 7191 + 4225)$$

$$\Rightarrow (?)^2 = 25600 - 19516$$

$$\Rightarrow (?)^2 = 6084 \Rightarrow (?) = \sqrt{6084} = 78$$

S13. Ans.(b)**Sol.** Here,

$$7^{2.3} \times 7^{2 \times 4.7} \times (7 \times 9)^{3.4} \times (9^2)^{5.85} = 63^?$$

$$\Rightarrow 7^{2.3+9.4+3.4} \times 9^{3.4+11.70} = (63)^?$$

$$\Rightarrow 7^{15.1} \times 9^{15.1} = (63)^?$$

$$\Rightarrow (63)^{15.1} = (63)^?$$

$$\Rightarrow ? = 15.1$$

S14. Ans.(a)**Sol.** Here, $\frac{1}{2}$ of 3842 + 15% of ? = 2449

$$\Rightarrow \frac{1}{2} \times 3842 + \frac{15}{100} \times ? = 2449$$

$$1921 + \frac{15}{100} \times x = 2449 \quad [\text{put } x = ?]$$

$$\Rightarrow 1921 + \frac{15}{100} \times x = 2449$$

$$\Rightarrow \frac{15x}{100} = 2449 - 1921 \Rightarrow \frac{15x}{100} = 528$$

$$\Rightarrow x = \frac{528 \times 100}{15} = 35.2 \times 100 = 3520$$

Adda
247



IBPS CLERK
COMBO

with Video Solutions

95 TOTAL TESTS

- 40 Full Length Mocks
- 55 Practice Sets
- E-Books, Study Notes etc.

Bilingual

S15. Ans.(d)

Sol. Here, $x\%$ of 500 = $y\%$ of 300

It can also be written as

$$\frac{x}{100} \times 500 = \frac{y}{100} \times 300 \Rightarrow 5x = 3y$$

$$\Rightarrow x = \frac{3}{5}y$$

Again, $x\%$ of $y\%$ of 200 = 60

$$\Rightarrow \frac{x}{100} \times \frac{y}{100} \times 200 = 60$$

$$xy = \frac{60 \times 100}{2}$$

$$xy = 3000$$

$$\text{Putting } x = \frac{3}{5}y \Rightarrow \frac{3}{5}y \times y = 3000$$

$$\Rightarrow y^2 = 1000 \times 5 \Rightarrow y = 50\sqrt{2}$$

$$\text{And } x = \frac{3}{5} \times 50\sqrt{2} = 30\sqrt{2}$$

S16. Ans.(e)

Sol. Here, terms of the given expression can also be written as

$$\sqrt{2500} \times \sqrt{625} \div \sqrt{100} = ?$$

$$\text{Or } ? = 50 \times 25 \div 10$$

$$\text{Or } ? = 5 \times 25$$

$$\text{Or } ? = 125$$

S17. Ans.(e)

Sol. Here, terms of the given expression can also be written as

$$(300000 + 300000) \div (9000 - 3500) = ?$$

$$\text{Or } ? = 600000 \div 5500$$

$$\text{Or } ? = 110$$

S18. Ans.(c)

Sol. Here, the terms of the given expression can also be rounded off as

$$\frac{700}{49} \div \frac{10}{700} \times \frac{110}{110} = ?$$

$$\text{Or } ? = \frac{700}{49} \times \frac{700}{10} \times \frac{110}{110}$$

$$\text{Or } ? = 1000 \approx 900$$

S19. Ans.(d)

Sol. Here, it can also be written as

$$1 + \frac{4}{7} + 7 + \frac{1}{3} + 3 + \frac{3}{5}$$

$$\text{Or } ? = (1 + 7 + 3) + \left(\frac{4}{7} + \frac{1}{3} + \frac{3}{5}\right)$$

$$\text{Or } ? = (11) + \left(\frac{60 + 35 + 63}{105}\right)$$

$$\text{Or } ? = 11 + \left(\frac{158}{105}\right)$$

$$\text{Or } ? = 11 + 1.5$$

$$\text{Or } ? = 12.5 \approx 13$$

S20. Ans.(c)

Sol. Here, $\frac{80}{11} \times 626 - \frac{23}{3} = \frac{80}{11} \times 616 - \frac{24}{3}$
 $= 80 \times 56 - 8 = 4480 - 8$
 $= 4472 \approx 4475$

S21. Ans.(d)

Sol. $(19.97\% \text{ of } 781) + ? + (30\% \text{ of } 87) = 252$
Or $(20\% \text{ of } 780) + ? + (30\% \text{ of } 87) = 252$
Or $156 + ? + 26 \approx 252$
Or $182 + ? \approx 252$
Or $? \approx 252 - 182$
Or $? = 70$

S22. Ans.(d)

Sol. Here, the given decimal can be rounded off as
 $425 - 270 \div (12\% \text{ of } 80) = ?$
Or $425 - 270 \div \left(\frac{12 \times 80}{100}\right) = ?$
Or $? = 425 - 270 \div 10$
Or $? = 425 - 27$
Or $? = 398 \approx 395$

S23. Ans.(c)

Sol. Here, the given expression can be rounded off as
 $(18)^2 - (14)^2 + (2350 + 80) \div ? = 230$
Or $324 - 196 + (2430) \div ? = 230$
Or $2430 \div ? = 230 - 130$
Or $2430 \div ? = 100$
Or $? = \frac{2430}{100} = 24.3 \approx 24$

S24. Ans.(c)

Sol. Here, the given expression can also be written as
 $8400 \div 400 \times 15$
Or $21 \times 15 = 315 \approx 335$

S25. Ans.(e)

Sol. Here, the given expression can also be written as
 $\frac{32}{5} \times 250 = ? \times 2400$
 $1600 = ? \times 2400$
Or $? = \frac{1600}{2400} = \frac{2}{3}$



CAREER POWER
AN IIT/IIM ALUMNI COMPANY

UIIC
ASSISTANT

युनाइटेड इंडिया
UNITED INDIA

MAINS

10 FULL LENGTH MOCKS
Bilingual

Price : ₹349/-
visit: store.adda247.com

S26. Ans.(b)

Sol. Here, the given expression can also be written as

$$(14)^2 - (15)^2 + (18)^2 - 32 = ?$$

$$\text{Or } ? = 196 - 225 + 324 - 32$$

$$\text{Or } ? = 196 + 324 - 225 - 32$$

$$\text{Or } ? = 520 - 257 = 263 \approx 264$$

S27. Ans.(b)

Sol. Here, the given expression can also be written as

$$32 \times 2800 \div 560 + 120 = ?$$

[applying BODMAS]

$$\text{Or } ? = 32 \times 5 + 120$$

$$\text{Or } ? = 160 + 120 = 280 \approx 284$$

S28. Ans.(a)

Sol. Here, the given expression can also be written as

$$15\% \text{ of } 725 \times 13\% \text{ of } 643 = ?$$

$$\text{Or } ? = \frac{15}{100} \times 725 \times \frac{13}{100} \times 643$$

$$\text{Or } ? = 15 \times 7.25 \times 13 \times 6.43$$

$$\text{Or } ? = 15 \times 7.25 \times 13 \times 6.5$$

$$\text{Or } ? = 195 \times 7.25 \times 6.5$$

$$= 9189.375 \approx 9190$$

S29. Ans.(d)

Sol. Here, the given expression can also be written as

$$2418 + 88 \div 14 \times 6 = ?$$

$$\text{Or } ? = 2418 + 6.3 \times 6$$

$$\text{Or } ? = 2418 + 38$$

$$\text{Or } ? = 2456 \approx 2455$$

S30. Ans.(b)

Sol. Here, the given expression can also be written as

$$5.6\% \text{ of } 240 \div \frac{3}{1000} \times 480 = ?$$

$$\text{Or } ? = \frac{5.6}{100} \times 240 \div \frac{1440}{1000}$$

$$\text{Or } ? = 5.6 \times 2.4 \div 1.44$$

$$\text{Or } ? = 13.44 \div 1.44$$

$$\text{Or } ? = 9.33$$

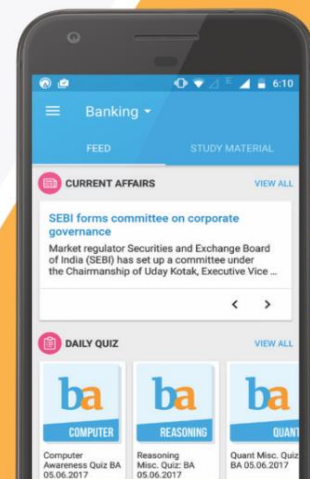




VIDEO COURSE

Compliment your classroom with Banking Video Courses
visit: videocourses.adda247.com

Study on the GO with the Adda247 App



Boost your prep with Topic-wise E-books and monthly Magazines
visit: store.adda247.com



Fulfill your Dream of **Government Job** visit: careerpower.in