

SBI CLERK PRELIMS 2022

MEMORY BASED PAPER

QUANTITATIVE APTITUDE



SBI Clerk Prelims Exam Analysis 2022 1st Shift : Numerical Ability (Level Moderate to Easy)

Simplification	15 Q
Wrong Number Series	5 Q
Table DI	5 Q
Arithmetic	10 Q
Total	35 Q

Arithmetic topics – Time and work, Profit and loss, Percentage, SI/CI, time and distance, Partnership, ages etc

Simplification

1. $209/399 \times 21^2 - 11^2 = ?$

- (a) 110
- (b) 320
- (c) 100
- (d) 120
- (e) 80

2. $\sqrt{2500} + 15\% \text{ of } 14 = ?$

- (a) 40.9
- (b) 45.1
- (c) 52.1
- (d) 58.9
- (e) 64.1

3. $(13)^2 - (16)^2 + (7)^2 = ?$

- (a) 57
- (b) 34
- (c) -27
- (d) -38
- (e) -49

4. $25\% \text{ of } 640 + 45\% \text{ of } 360 = ?$

- (a) 358
- (b) 378
- (c) 322
- (d) 302
- (e) 288

5. $75 \times 20 + 35 \times 60 = ?^2$

- (a) 60
- (b) 50
- (c) 55
- (d) 40
- (e) 65

6. $721 - 243 + 58 - 121 = ?$

- (a) 415
- (b) 627
- (c) 377
- (d) 485
- (e) 525

7. $? \times (12.8 \times 15) = 222 - \sqrt{16}$

- (a) 1.5
- (b) 2.5
- (c) 3.5
- (d) 0.5
- (e) 5.5

8. $1\frac{2}{7} + 5\frac{3}{14} = ?^2 - 2\frac{1}{2}$

- (a) 5
- (b) 4
- (c) 3
- (d) 7
- (e) 10

9. $250 \times 20 \div 5 - (9)^3 = ?$

- (a) 271
- (b) 277
- (c) 239
- (d) 231
- (e) 281

10. $160 \div 40 + 112 \times 15 = ?$

- (a) 1720
- (b) 1665
- (c) 1735
- (d) 1684
- (e) 1695



11. $120 \div 5 \times 17 + 12.5 \times 400 = ?$

- (a) 5005
- (b) 5505
- (c) 5408
- (d) 5308
- (e) 5206

12. $264 \times 25 \div 120 = ? - 332$

- (a) 363
- (b) 387
- (c) 345
- (d) 398
- (e) 381

13. $4445 - 540 + 1128 - 455 = ?$

- (a) 4508
- (b) 4578
- (c) 4028
- (d) 4518
- (e) 4448

14. $20 + 5 + 30.5 - 50 = ?$

- (a) 5.5
- (b) 2
- (c) 8.5
- (d) 12.5
- (e) 14

15. $995 - 40 \times 20 + 5 = 2 \times ?$

- (a) 115
- (b) 85
- (c) 100
- (d) 125
- (e) 75



Arithmetic

16. A started a business with investment Rs. 5000 and after 6 months of starting the business B also joined with capital 8000. At the end of year annual profit of business was Rs. 7200. Find the profit share of B.

- (a) Rs. 3200
- (b) Rs. 4000
- (c) Rs. 2800
- (d) Rs. 3600
- (e) Rs. 5000

17. In a 64 liter mixture of milk and water the ratio of water to milk is 3 : 5. If x liter water is mixed in this mixture, so the ratio of water to milk becomes 5 : 8. Find the value of x.

- (a) 6 l
- (b) 4 l
- (c) 2 l
- (d) 1 l
- (e) 5 l

18. A is 20% more efficient than B who complete the work alone in 20 days. A work first two days alone, then find in how many days remaining work will be completed if both work together?

- (a) 6 days
- (b) 5 days
- (c) 9 days
- (d) 8 days
- (e) 7 days

19. Speed of a boat in still water is 8 km/h. It takes 5 hours to go upstream and 3 hours downstream distance between two points. What is the speed of stream?

- (a) 4 km/h
- (b) 2 km/h
- (c) 3 km/h
- (d) 1 km/h

(e) 2.5 km/h

20. A shopkeeper marked an article 50% above its cost price and sells it for Rs.1200, if he gives a discount of 20% on marked price, Find out his profit?

- (a) 100 Rs.
- (b) 200 Rs.
- (c) 300 Rs.
- (d) 400 Rs.
- (e) 500 Rs.

21. Length of rectangle is 5m more than side of square, whose area is 225m^2 . Ratio of length to breadth of rectangle is 5 : 4, then find perimeter of rectangle.

- (a) 60m
- (b) 68m
- (c) 84m
- (d) 90m
- (e) 72m

22. Megha invested Rs.16000 at R% p.a. at CI compounding semi-annually for 1 years. If total interest received by Megha is Rs.5160, then find the value of R?

- (a) 24/ 24
- (b) 20/ 20
- (c) 36/ 36
- (d) 16/ 16
- (e) 30/ 30

23. There are 20 students in a class and the average age of class is 25 years. If average age of first 18 students is 24 years, then what will be the average age of last two students?

- (a) 32
- (b) 36
- (c) 38
- (d) 34
- (e) 30

24. Pipe P and Q together can fill a tank 24 hours. If efficiencies of pipe P to Q is in the ratio of 3:2, then in how many hours pipe Q can fill the same tank alone?

- (a) 60
- (b) 45
- (c) 30
- (d) 72
- (e) 54

25. A train running at the speed of 144 kmph crosses a pole in 15 seconds. Find the time taken by the same train to cross the pole with the speed of 108 kmph (in sec)?

- (a) 21
 (b) 24
 (c) 27
 (d) 22.5
 (e) 20

Tabular DI

Directions (26-30): The table given below shows the no. of calculators sold by 3 different sellers in 3 days. Study the data and answer the following questions.

Month Sellers	Monday	Tuesday	Wednesday
P	2000	2400	1800
Q	1500	1850	2000
R	1750	2000	2250

Q26. What is the average no. of calculators sold by P in all the given days?

- (a) 2050
 (b) $2066\frac{1}{3}$
 (c) 2066
 (d) $2066\frac{2}{3}$
 (e) 2255

Q27. Calculators sold by Q on Monday and Tuesday together is what percent more/less than that by R on Tuesday and Wednesday? (approximate)

- (a) 21%
 (b) 24%
 (c) 16%
 (d) 12%
 (e) 27%

Q28. Find the ratio between calculators sold by R to P in all given days.

- (a) 23 : 45
 (b) 24 : 43
 (c) 30 : 31
 (d) 41 : 25
 (e) 23 : 42

Q29. Find the revenue obtained by Q on Tuesday is how much more/less than that by R in same day, if selling price of calculator is Rs 120 and all calculators are sold. (Note – cost price and selling price of each calculator is same for all sellers)

- (a) Rs 25,000
 (b) Rs 22,000
 (c) Rs 16,000
 (d) Rs 20,000
 (e) Rs 18,000

Q30. Calculators sold by P on Wednesday is what percent of calculators sold by R on Tuesday?

- (a) $\frac{1000}{9}$ %
 (b) 90%
 (c) 10%
 (d) $\frac{100}{9}$ %
 (e) 75%

Wrong Number series

Direction (31-35)

1,3,5,9,17,33,65

27,48,80,134,221,355

25,5085,130,185,245,325

292,291,295,268,284,161

215,200,250,175,275,150,300

Solution

1. Ans. a

Exp.

$$? = \frac{209}{399} \times 21^2 - (11)^2$$

$$? = \frac{19 \times 11}{19 \times 21} \times 21^2 - 11^2$$

$$? = 231 - 121 = 110$$

2. Ans. c

Exp.

$$\sqrt{2500} + \frac{15}{100} \times 14 = ?$$

$$50 + 2.1 = ?$$

$$52.1 = ?$$

3. Ans. d

Exp.

$$? = (13)^2 - (16)^2 + (7)^2$$

$$= 169 - 256 + 49$$

$$= -38$$

4. Ans. c

Exp.

$$? = 25\% \text{ of } 640 + 45\% \text{ of } 360$$

$$? = 160 + 162$$

$$? = 322$$

5. Ans. a

Exp.

$$?^2 = 1500 + 2100$$

$$? = \sqrt{3600}$$

$$? = 60$$

6. Ans. a

Exp.

$$? = 779 - 364$$

$$? = 415$$

7. Ans. b

Exp.

$$? \times 192 = 484 - 4$$

$$? \times 192 = 480$$

$$? = 2.5$$

8. Ans. c

Exp.

$$(18 + 73 + 35) / 14 = ?$$

$$? = 126 / 14$$

$$? = 9$$

$$? = 3$$

9. Ans. a

Exp.

$$? = 250 \times 20 \times 1/5 - 729$$

$$? = 1000 - 729$$

16. Ans. a

$$\text{Exp. Investment} \times \text{time of A} = 5000 \times 12 = 60000$$

$$\text{Investment} \times \text{time of B} = 8000 \times 6 = 48000$$

So, profit share ratio of A to B

$$? = 271$$

10. Ans. d

Exp.

$$? = 160 / 40 + 112 \times 15$$

$$? = 4 + 1680$$

$$? = 1684$$

11. Ans. c

$$\text{Exp. } 24 \times 17 + 25 / 2 \times 400 = ?$$

$$408 + 5000 = ?$$

$$? = 5408$$

12. Ans. b

$$\text{Exp. } 264 \times 25 \times 1 / 120 = ? - 332$$

$$? = 55 + 332$$

$$? = 387$$

13. Ans. b

$$\text{Exp. } 4445 + 1128 - 540 - 455 = ?$$

$$5573 - 995 = ?$$

$$? = 4578$$

14. Ans. a

$$\text{Exp. } 20 + 5 + 30.5 - 50 = ?$$

$$? = 5.5$$

15. Ans. c

$$\text{Exp. } 995 - 800 + 5 = 2 \times ?$$

$$? = 100$$

So, profit share ratio of A to B

$$A : B = 60000 : 48000$$

$$= 5 : 4$$

$$\text{So, profit of B} = \frac{4}{(5+4)} \times 7200 = \text{Rs. } 3200$$

17. Ans. d

$$\text{Exp. Initial quantity of water in mixture} = 3/8 \times 64 = 24\ell$$

$$\text{Initial quantity of milk in mixture} = 5/8 \times 64 = 40\ell$$

$$(24+x)/40=5/8$$

$$\Rightarrow 24 + x = 25$$

$$\Rightarrow x = 1\ell$$

18. Ans. d

$$\text{Exp. A : B} = 120 : 100$$

$$= 6 : 5$$

$$\text{Total work} = 120 \times 5 = 100$$

$$\text{Remaining work} = 100 - 6 \times 2$$

$$= 88$$

$$\text{Required days} = 88/((6+5))$$

$$= 8 \text{ days}$$

19. Ans. b

$$\text{Exp. Let speed of stream} = r \text{ km/h}$$

$$A/q,$$

$$(8-r) \times 5 = (8+r) \times 3$$

$$\Rightarrow 40 - 5r = 24 + 3r$$

$$\Rightarrow r = 16/8 = 2 \text{ km/h}$$

20. Ans. b

$$\text{Exp. Let the cost price of article be Rs. } 100x.$$

$$\text{Marked price of article} = \text{Rs. } 150x$$

$$\text{Selling price of article} = 150x \times 0.8 = \text{Rs. } 120x$$

$$120x = 1200$$

$$x = 10$$

$$\text{Profit} = (120x - 100x) = 20x$$

$$= 200 \text{ Rs.}$$

21. Ans. e

$$\text{Exp. Length of rectangle} = \sqrt{225} + 5$$

$$= 20\text{m}$$

$$\text{Breadth of rectangle} = 20 \times \frac{4}{5}$$

$$= 16\text{m}$$

$$\text{Required perimeter} = 2 \times (20+16)$$

$$= 72\text{m}$$

22. Ans. e

$$16000 \times \left(1 + \frac{\frac{R}{2}}{100}\right)^2 - 16000 = 5160$$

On solving we get

$$R=30\%$$

23. Ans. d

$$\text{Exp. Sum of ages of all the 20 students} = 20 \times 25 = 500 \text{ years}$$

$$\text{Sum of ages of first 18 students} = 18 \times 24 = 432 \text{ years}$$

$$\text{Sum of ages of last 2 students} = 500 - 432 = 68 \text{ years}$$

$$\therefore \text{Required average age} = 68/2 = 34 \text{ years}$$

24. Ans. a

$$\text{Pipe P} : \text{Pipe Q}$$

$$\text{Let efficiency} \quad 3x : 2x$$

$$\text{Total capacity of tank} = (3x+2x) \times 24 = 120x \text{ units}$$

$$\text{So, pipe Q alone can fill the same tank in} = 120x/2x = 60 \text{ hours}$$

25. Ans. e

Exp. Let length of train be 'l' meters

$$144 \times \frac{5}{18} = l/15$$

$$l = 600 \text{ meters}$$

$$\text{Required time} = \frac{600}{108 \times \frac{5}{18}} = 20 \text{ sec}$$

26. Ans (d)

$$\text{Exp. Required average} = \frac{2000+2400+1800}{3} = \frac{6200}{3}$$

$$= 2066\frac{2}{3}$$

27. Ans (a)

$$\begin{aligned} \text{Exp. Required percentage} &= \frac{(2000+2250)-(1500+1850)}{(2000+2250)} \times 100 \\ &= \frac{4250-3350}{4250} \times 100 = \frac{900}{4250} \times 100 \\ &= \frac{360}{17} = 21.176 \approx 21\% \end{aligned}$$

28. Ans (c)

$$\begin{aligned} \text{Exp. Required ratio} &= \frac{1750+2000+2250}{2000+2400+1800} = \frac{6000}{6200} = \frac{30}{31} \\ &= 30:31 \end{aligned}$$

29. Ans (e)

$$\begin{aligned} \text{Exp. Difference in revenue} &= (2000 - 1850) \times 120 = 150 \times 120 \\ &= \text{Rs } 18,000 \end{aligned}$$

30. Ans (b)

$$\begin{aligned} \text{Exp. Required percentage} &= \frac{1800}{2000} \times 100 \\ &= 90\% \end{aligned}$$

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