

Quant Mega Quiz for RRB NTPC – (Solutions)

S1. Ans.(d)

Sol.

$$7200 = \frac{P \times 12 \times 6}{100}$$

$$P = 10000$$

$$\begin{aligned} \text{Rate of C.I.} &= 5 + 5 + \frac{25}{100} \\ &= 10.25\% \end{aligned}$$

$$\begin{aligned} \text{C.I.} &= 10000 \times \frac{10.25}{100} \\ &= 1025 \text{ Rs.} \end{aligned}$$

S2. Ans.(d)

Sol.

$$\begin{aligned} \text{Average} &= \frac{15976}{7} \\ &\cong 2282 \end{aligned}$$

S3. Ans.(d)

Sol.

$$\begin{aligned} \% &= \frac{25}{10000} \times 100 \\ &= 0.25\% \end{aligned}$$

S4. Ans.(b)

Sol.

$$\begin{aligned} \frac{100 \times 100}{100} &= \frac{1 \times \text{days}}{1} \\ \text{days} &= 100 \end{aligned}$$

S5. Ans. (a)

Sol.

$$\begin{aligned} \text{Average speed} &= \frac{(2x \times y)}{(x+y)} \\ &= \frac{(2 \times 50 \times 60)}{(50 + 60)} = 600/11 \\ &= 54 \frac{6}{11} \text{ km/hr} \end{aligned}$$

sscadda.com

TEST SERIES

Bilingual



**DMRC CRA
2019**

10 TOTAL TESTS

S6. Ans. (b)

Sol.

$$\text{Mean 5} = 18$$

$$\text{Sum of 5} = 90$$

$$\text{Mean of 4} = 16$$

$$\text{Sum of 4} = 64$$

$$\text{Excluded Number} = 90 - 64 = 26$$

S7. Ans. (a)

Sol.

Remaining Loan

$$\text{After payment of } \frac{3^{\text{th}}}{4} \Rightarrow 1 - \frac{3}{4} \Rightarrow \frac{1}{4}$$

$$\frac{1}{4} \rightarrow 500$$

$$1 \rightarrow 2000 \text{ Rs}$$

S8. Ans. (c)

Sol.

$$\frac{2}{3}X - \frac{3}{5}X = 4$$

$$\frac{10x - 9x}{15} = 4$$

$$X = 60$$

S9. Ans. (b)

Sol.

$$A = 2B$$

| | A | : | B |
|------------|---|---|---|
| Efficiency | 2 | : | 1 |
| Time | 1 | : | 2 |

$$\frac{1}{x} + \frac{1}{2x} = \frac{1}{12}$$

$$\frac{2+1}{2x} = \frac{1}{12}$$

$$\frac{3}{2x} = \frac{1}{12}$$

$$X = 18$$

B Alone will do it in

$$= 18 \times 2$$

$$= 36 \text{ days}$$

SSCadda.com

TEST SERIES

English



SSC CPO

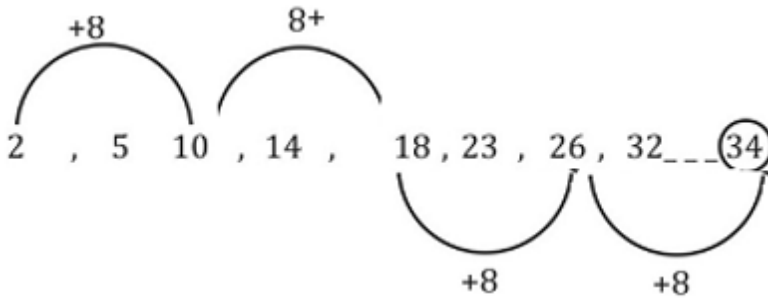
TIER-II

10 Full-Length Mocks

Validity : 12 Months

S10. Ans. (b)

Sol.



Next Number

$$= 26 + 8$$

$$= 34$$

S11. Ans.(b)

Sol. Let C.P. = x

$$\text{Loss} = \frac{x}{6}$$

$$x - \frac{x}{6} = 15$$

$$\frac{5x}{6} = 15$$

$$x = 18 \text{ Rs.}$$

S12. Ans.(a)

Sol.

$$\text{Loss}\% = \frac{0.5}{5} \times 100$$

$$= 10\%$$

S13. Ans.(b)

Sol. Single discount

$$= -5 - 10 + 0.5$$

$$= 14.5$$

$$\text{Present price} = 850 \times \frac{85.5}{100}$$

$$= 726.75$$

S14. Ans.(a)

Sol.

$$\frac{P \times 20}{100} - \frac{P \times 15}{100} = 42$$

$$P \left(\frac{5}{100} \right) = 42$$

$$P = 840$$

S15. Ans.(a)

Sol.

$$\text{Hydrogen} = 14\frac{2}{7}\%$$

$$= \frac{1}{7} \rightarrow \text{Hydrogen}$$

$$= \frac{7}{7} \rightarrow \text{total}$$

$$\text{Oxygen} = 7 - 1 = 6$$

$$7r \rightarrow 350$$

$$6r \rightarrow 300 \text{ g}$$

S16. Ans.(b)

Sol.

$$120 = \text{speed} \times 6 \text{ sec}$$

$$\text{Speed} = 20 \text{ m/sec}$$

$$= 20 \times \frac{18}{5}$$

$$= 72 \text{ km/hr}$$

S17. Ans.(d)

Sol.

$$16 M = 20W$$

$$M = \frac{5}{4}W$$

$$28 M + 15W$$

$$= 28 \times \frac{5}{4}W + 15W$$

$$= 35 W + 15 W$$

$$= 50 W$$

$$20 W \times 25 = 50 W \times \text{day}$$

$$\text{Days} = 10 \text{ days.}$$

S18. Ans.(b)

Sol.

$$T_4 = 14$$

$$a + 3d = 14$$

$$T_{12} = 70$$

$$a + 11d = 70$$

$$\underline{a + 3d = 14}$$

$$8d = 56$$

$$d = 7$$

$$a + 21 = 14$$

$$a = -7$$

SSCadda.com

TEST SERIES

Bilingual



**RRB NTPC
PREMIUM**

100+ TOTAL TESTS

Validity : 12 Months

S19. Ans.(c)

Sol.

$$\begin{aligned}\text{Sum of squares of 1}^{\text{st}} \text{ ten natural number} &= \frac{n(n+1)(2n+1)}{6} \\ &= \frac{10 \times 11 \times 21}{6} \\ &= 385\end{aligned}$$

S20. Ans.(c)

Sol.

L.C.M. of 2, 3, 6, 12 = 12

$$2^{\frac{1}{2}} = 2^{\frac{6}{12}}$$

$$4^{\frac{1}{3}} = 4^{\frac{4}{12}}$$

$$6^{\frac{1}{6}} = 6^{\frac{2}{12}}$$

$$12^{\frac{1}{12}} = 12^{\frac{1}{12}}$$

$$\text{Largest} = 4^{\frac{4}{12}}$$

S21. Ans.(d)

Sol.

$$10 \text{ CP} = 16 \text{ SP}$$

$$\text{CP} : \text{SP} = 16 : 10$$

$$\begin{aligned}\text{loss} &= \frac{6}{16} \times 100 \\ &= 37.5\%\end{aligned}$$

S22. Ans.(d)

Sol.

$$\begin{aligned}\text{Amount} &= 6000 \times \left(1 + \frac{5}{100}\right)^2 \\ &= 6000 \times \frac{21 \times 21}{20 \times 20} \\ &= 15 \times 21 \times 21 \\ &= 6615 \text{ Rs}\end{aligned}$$

S23. Ans.(c)

Sol.

$$\begin{aligned}\frac{n_1 - 1}{t_1} &= \frac{n_2 - 1}{t_2} \\ \frac{1}{10} &= \frac{2}{t_2} \\ t_2 &= 20 \text{ years}\end{aligned}$$

S24. Ans.(c)

Sol.

$$\text{Radius of incircle} = \frac{a}{2\sqrt{3}}$$

$$= \frac{14\sqrt{3}}{2\sqrt{3}} = 7 \text{ cm}$$

$$\text{Area of circle} = \pi r^2$$

$$= \frac{22}{7} \times 49$$

$$= 154$$

S25. Ans.(b)

Sol.

$$n_1^{t_1} = n_2^{t_2}$$

$$2^{\frac{1}{3}} = 4^{\frac{1}{t_2}}$$

$$2^{\frac{1}{3}} = 2^{\frac{2}{t_2}}$$

$$\frac{1}{3} = \frac{2}{t_2}$$

$$t_2 = 6 \text{ years}$$

12 Months Subscription



SSC PREMIUM

Useful for CGL | CHSL | CPO & Others

900+ TESTS



sscadda.com