# CDS 2 2024

LIVE

# REVISION S

CLASS 3

SSBCrack EXAMS

ISSBCrack

**NAVJYOTI SIR** 



# 07 August 2024 Live Classes Schedule

8:00AM O7 AUGUST 2024 DAILY CURRENT AFFAIRS RUBY MA'AM

9:00AM - 07 AUGUST 2024 DAILY DEFENCE UPDATES DIVYANSHU SIR

### SSB INTERVIEW LIVE CLASSES

9:00AM INTRODUCTION OF PPDT & PRACTICE ANURADHA MA'AM

### AFCAT 2 2024 LIVE CLASSES

1:00PM MAHA MARATHON SESSION - PART 3

### NDA 2 2024 LIVE CLASSES

11:00AM GK - HISTORY REVISION - CLASS 2 RUBY MA'AM

12:00PM PHYSICS REVISION - CLASS 2 NAVJYOTI SIR

1:00PM MATHS REVISION - CLASS 3 NAVJYOTI SIR

2:00PM BIOLOGY REVISION - CLASS 3 SHIVANGI MA'AM

### CDS 2 2024 LIVE CLASSES

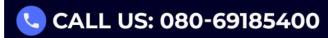
11:00AM GK - HISTORY REVISION - CLASS 3 RUBY MA'AM

12:00PM PHYSICS REVISION - CLASS 3 NAVJYOTI SIR

2:00PM BIOLOGY REVISION - CLASS 3 SHIVANGI MA'AM

3:00PM MATHS REVISION - CLASS 3 NAVJYOTI SIR







# REVISION TOPIC:

- Profit and Loss
- Speed, Time and Distance



Q) A man buys 4 tables and 5 chairs for ₹ 1000. If he sells the tables at 10% profit and chairs 20% profit, he earns a profit of ₹ 120. What is the cost of one table?

$$SP = 2 \times \frac{110}{100} + (1000 - x) \frac{120}{100}$$

$$= \frac{11}{10} \times + 1200 - 12 \times$$

$$\geq 1200 - \frac{\chi}{10}$$

$$\begin{pmatrix} \frac{\chi}{4} \end{pmatrix} = \frac{800}{3} = \frac{1}{2} \times \frac{1}{3} \times \frac{1}{3}$$



Q) A man buys 4 tables and 5 chairs for ₹ 1000. If he sells the tables at 10% profit and chairs 20% profit, he earns a profit of ₹ 120. What is the cost of one table?

(a) ₹200

(b) ₹ 220

(c) ₹240

(d) ₹260

Ans: (a)



**Q)**A shopkeeper buys a product of ₹ 150 per kg. 15% of product was damaged. At what price (per kg) should he sell the remaining so as to earn a profit of 20%?

(a) 
$$\ge 205 \frac{13}{17}$$

₹209<del>13</del>

(b) 
$$\stackrel{?}{=} 207 \frac{13}{17}$$

$$(d)$$
 ₹211 $\frac{13}{17}$ 

$$P = 150x$$

$$SP = 2\left(\frac{85}{100}\right) \times (y)$$

$$211 \frac{13}{12}$$

$$30 = \frac{85}{100} \times 4 - 150$$

$$\frac{180 \times 100}{88/7} = 4$$

$$30 = \frac{85}{100} y - 150$$

$$30 = y$$

$$88/7$$



Q)A shopkeeper buys a product of ₹ 150 per kg. 15% of product was damaged. At what price (per kg) should he sell the remaining so as to earn a profit of 20%?

(a) 
$$\ge 205 \frac{13}{17}$$

(b) 
$$\stackrel{?}{=} 207 \frac{13}{17}$$

(c) 
$$₹209 \frac{13}{17}$$

(d) 
$$\stackrel{?}{=} 211 \frac{13}{17}$$

**Ans: (d)** 



**Q)**An article is sold at a certain price. If it is sold at  $33\frac{1}{3}\%$  of  $(\frac{7}{3})$ 

this price, there is a loss of  $33\frac{1}{2}\%$ . What is the percentage profit when it is sold at 60% of the original selling price?

(a) 20 (b) 30 (c) 
$$33\frac{1}{3}$$
 (d)  $17\frac{1}{3}$   $\left( -200 \text{ CP} = -100 \text{ CP} \right)$ 

$$\frac{1}{3}$$
 \times \left(SP)

$$\frac{3}{33}\% - \cos \frac{100}{3} = \frac{CP - \frac{1}{3}x}{CP} \times \frac{100}{2} = \frac{3}{2}x - \frac{2}{3} \times \frac{100}{2} = \frac{100}{2}$$

$$\frac{100 \, \text{CP} - 100 \, \text{CP} = -100 \, \text{x}}{3} \, \text{x}$$

$$QVP = \chi$$

$$\frac{3}{5}\pi - \frac{2}{9} \times 100$$

$$\frac{3}{105} \times 100 = 20$$

$$\frac{\chi}{2}$$



- **Q)**An article is sold at a certain price. If it is sold at  $33\frac{1}{3}\%$  of this price, there is a loss of  $33\frac{1}{3}\%$ . What is the percentage profit when it is sold at 60% of the original selling price?

- (a) 20 (b) 30 (c)  $33\frac{1}{3}$  (d)  $17\frac{1}{3}$

**Ans: (a)** 



**Q)**A cloth merchant buys cloth from a weaver and cheats him by using a scale which is 10 cm longer than a normal metre scale. He claims to sell cloth at the cost price to his customers, but while selling uses a scale which is 10 cm shorter than a normal metre scale. What is his gains?

(a) 20%

(b) 21%

(c)  $22\frac{2}{9}\%$ 

(d)  $23\frac{1}{3}\%$ 



**Q)**A cloth merchant buys cloth from a weaver and cheats him by using a scale which is 10 cm longer than a normal metre scale. He claims to sell cloth at the cost price to his customers, but while selling uses a scale which is 10 cm shorter than a normal metre scale. What is his gains?

(a) 20%

(b) 21%

(c)  $22\frac{2}{9}\%$ 

(d)  $23\frac{1}{3}\%$ 



**Q)**By giving 25% discount a trader earns 25% profit. If he sells the item at 10% discount, what is his profit?

(a) 10%

(b) 40%

(c) 45%

(d) 50%



**Q)**By giving 25% discount a trader earns 25% profit. If he sells the item at 10% discount, what is his profit?

(a) 10%

(b) 40%

(c) 45%

(d) 50%

Ans: (d)



Q) A man bought 500 metres of electronic wire at 50 paise per metre. He sold 50% of it at a profit of 5%. At what percent should he sell the remainder so as to gain 10% on the whole transaction?

(a) 13%

(b) 12.5% (c) 15% (d)

20%



Q) A man bought 500 metres of electronic wire at 50 paise per metre. He sold 50% of it at a profit of 5%. At what percent should he sell the remainder so as to gain 10% on the whole transaction?

(a) 13%

(b) 12.5% (c) 15% (d)

20%



Q) A shopkeeper gets a loss of 28 (4/7)% on CP, find percentage loss on SP.

(a) 30%

(b)  $\frac{200\%}{3}$ 

(c) 40%

(d) None of these



Q) A shopkeeper gets a loss of 28 (4/7)% on CP, find percentage loss on SP.

(a) 30%

(b)  $\frac{200\%}{3}$ 

(c) 40%

(d) None of these



Q) Five kg of butter was bought by a shopkeeper for ₹ 300. One kg becomes unsaleable. He sells the remaining in such a way that on the whole he incurs a loss of 10%. At what price per kg was the butter sold?

(a) ₹67.50 (b) ₹52.50 (c) ₹60 (d) ₹72.50



Q) Five kg of butter was bought by a shopkeeper for ₹ 300. One kg becomes unsaleable. He sells the remaining in such a way that on the whole he incurs a loss of 10%. At what price per kg was the butter sold?

(a) ₹67.50 (b) ₹52.50 (c) ₹60 (d) ₹72.50

Ans: (a)



Q) A shopkeeper allows 10% discount on goods when he sells without credit. Cost price of his goods is 80% of his selling price. If he sells his goods by cash, then his profit is

(a) 50% (b) 70% (c) 25% (d) 40%



Q) A shopkeeper allows 10% discount on goods when he sells without credit. Cost price of his goods is 80% of his selling price. If he sells his goods by cash, then his profit is

(a) 50% (b) 70% (c) 25% (d) 40%



Q)A dealer of scientific instruments allows 20% discount on the marked price of the instruments and still makes a profit of 25%. If his gain over the sale of an instrument is ₹ 150, find the marked price of the instrument.

(a) ₹938.50

(b) ₹940

(c) ₹938

(d) ₹937.50



Q)A dealer of scientific instruments allows 20% discount on the marked price of the instruments and still makes a profit of 25%. If his gain over the sale of an instrument is ₹ 150, find the marked price of the instrument.

(a) ₹938.50

(b) ₹940

(c) ₹938

(d) ₹937.50

Ans: (a)



Q) The price of a jewel, passing through three hands, rises on the whole by 65%. If the first and the second sellers earned 20% and 25% profit respectively, find the percentage profit earned by the third seller.

(a) 20%

(b) 10%

(c) 25%

(d) No gain or loss



Q) The price of a jewel, passing through three hands, rises on the whole by 65%. If the first and the second sellers earned 20% and 25% profit respectively, find the percentage profit earned by the third seller.

(a) 20%

(b) 10%

(c) 25%

(d) No gain or loss

**Ans: (b)** 



- **Q)** A sells an article which costs him ₹ 400 to B at a profit of 20%. B then sells it to C, making a profit of 10% on the price he paid to A. How much does C pay to B?
- (a)  $\not\in 472$  (b)  $\not\in 476$  (c)  $\not\in 528$  (d)  $\not\in 532$



**Q)** A sells an article which costs him ₹ 400 to B at a profit of 20%. B then sells it to C, making a profit of 10% on the price he paid to A. How much does C pay to B?

(a)  $\not\in 472$  (b)  $\not\in 476$  (c)  $\not\in 528$  (d)  $\not\in 532$ 



- Q) A scooterist completes a certain journey in 10 h. He covers half the distance at 30 km/h and the rest at 70 km/ Total distance be 2d km. h. What is total distance of the journey?
  - (a) 210 km

(b) 400 km

(g) 420 km

(d) 500 km

$$\frac{d}{30} + \frac{d}{70} = 10$$

$$d = 210 \qquad \Rightarrow 2d = 420 \text{ km}$$



Q) A scooterist completes a certain journey in 10 h. He covers half the distance at 30 km/h and the rest at 70 km/h. What is total distance of the journey?

(a) 210 km

(b) 400 km

(c) 420 km

(d) 500 km



**Q)**B starts 4 minutes after A from the same point, for a place at a distance of 7 miles from the starting point. A on reaching the destination turns back and walks a mile where he meets B. If A's speed is a mile in 8 minutes then B's speed is a mile in minutes.

Meeting

/ mi/e / 8 min speed of B = 6 miles = 1 miles/min

8 miles / Time by  $A = \frac{8}{(4)} = \frac{64 \text{ min}}{8}$ Time by B = 64 - 4 = 60 min



Q)B starts 4 minutes after A from the same point, for a place at a distance of 7 miles from the starting point. A on reaching the destination turns back and walks a mile where he meets B. If A's speed is a mile in 8 minutes then B's speed is a mile in minutes.

(a) 9

(b) 12

(c) 10

(d) 8



Q)A train crosses a telegraph post in 8s and a bridge 200 m long in 24 s. What is the length of the train?

$$L = 8 v = 8 \times 260$$
 $L = 100 \text{ m}$ 



**Q)**A train crosses a telegraph post in 8s and a bridge 200 m long in 24 s. What is the length of the train?

(a) 100 m

(b) 120 m

(c)  $140 \,\mathrm{m}$ 

(d) 160 m

Ans: (a)



Q) The speeds of three buses are in the ratio 2:3:4. The time taken by these buses to travel the same distance will be in the ratio

(a) 2:3:4

(b) 4:3:2

(c) 4:3:6

(d) 6:4:3



**Q)** The speeds of three buses are in the ratio 2 : 3 : 4. The time taken by these buses to travel the same distance will be in the ratio

(a) 2:3:4

(b) 4:3:2

(c) 4:3:6

(d) 6:4:3

Ans: (d)

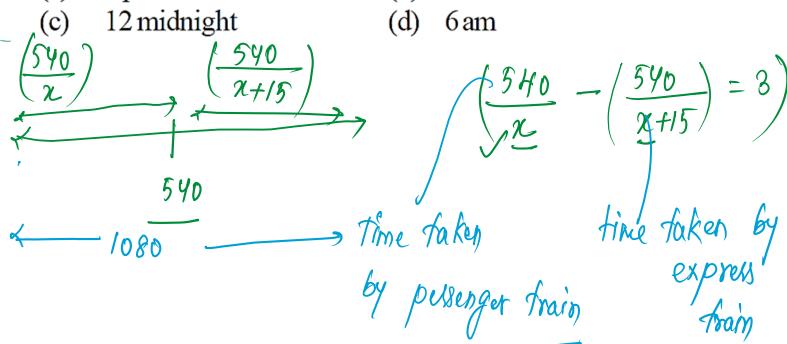


Q) A passenger train departs from Delhi at 6 pm, for Mumbai. At 9 p.m., an express train, whose average speed exceeds that of the passenger train by 15 km/hour leaves Mumbai for Delhi. Two trains meet each other mid-route. At what time do they meet, given that the distance between the cities is 1080 km?

pelsenger train — x km/h
express " — (x+15)km/h

(a) 4 pm.

(b) 2 am.





Q) A passenger train departs from Delhi at 6 pm, for Mumbai. At 9 p.m., an express train, whose average speed exceeds that of the passenger train by 15 km/hour leaves Mumbai for Delhi. Two trains meet each other mid-route. At what time do they meet, given that the distance between the cities is 1080 km?

(a) 4 pm.

(b) 2 am.

(c) 12 midnight

(d) 6 am

Ans: (d)



Q) A boat goes 24 km upstream and 28 km downstream in 6 hours. It goes 30km upstream and 21 km downstream in 6 hours and 30 minutes. The speed of the boat in still water is:

(a)  $10 \,\mathrm{km/h}$ 

(b) 4 km/h

(c)  $14 \, \text{km/h}$ 

(d) 6km/h



Q) A boat goes 24 km upstream and 28 km downstream in 6 hours. It goes 30km upstream and 21 km downstream in 6 hours and 30 minutes. The speed of the boat in still water is:

(a)  $10 \, \text{km/h}$ 

(b) 4 km/h

(c)  $14 \, \text{km/h}$ 

(d) 6km/h

Ans: (a)



- Q) Travelling at 60 km/h, a person reaches his destination in a certain time. He covers 60% of his journey in
  - $\frac{2}{5}$ th of the time. At what speed (in km/h) should he travel to cover the remaining journey so that he reaches the destination right on time?
  - (a)
- 40 (b) 48 (c) 42

(d) 36



Q) Travelling at 60 km/h, a person reaches his destination in a certain time. He covers 60% of his journey in

 $\frac{2}{5}$ th of the time. At what speed (in km/h) should he travel to cover the remaining journey so that he reaches the destination right on time?

(a)

40 (b) 48 (c) 42

(d) 36

**Ans: (a)** 



Q) A train is travelling at 48 km/hour completely crosses another train having half its length and travelling in opposite direction at 42 km/hour in 12 s. It also passes a railway platform in 45 s. What is the length of the platform?

(a) 600 m

(b) 400 m

(c)  $300 \,\mathrm{m}$ 

(d) 200 m



Q) A train is travelling at 48 km/hour completely crosses another train having half its length and travelling in opposite direction at 42 km/hour in 12 s. It also passes a railway platform in 45 s. What is the length of the platform?

(a) 600 m

(b) 400 m

(c)  $300 \,\mathrm{m}$ 

(d) 200 m

**Ans: (b)** 



Q) A train without stoppage travels with an average speed of 50 km/h, and with stoppage, it travels with an average speed of 40 km/h. For how many minutes does the train stop on an average per hour?

(a) 12

(b) 13

(c) 14 (d) 15



Q) A train without stoppage travels with an average speed of 50 km/h, and with stoppage, it travels with an average speed of 40 km/h. For how many minutes does the train stop on an average per hour?

(a) 12

(b) 13

(c) 14

(d) 15

Ans: (a)



**Q)** In a flight of 600 km, an aircraft was slowed down due to bad weather. Its average speed for the trip was reduced by 200 km/hr and the time of flight increased by 30 minutes. The duration of the flight is

(a) 1 hour

(b) 2 hours

(c) 3 hours

d) 4 hours



**Q)** In a flight of 600 km, an aircraft was slowed down due to bad weather. Its average speed for the trip was reduced by 200 km/hr and the time of flight increased by 30 minutes. The duration of the flight is

(a) 1 hour

(b) 2 hours

(c) 3 hours

(d) 4 hours

Ans: (a)



Q) A thief is noticed by a policeman from a distance of 200 m. The thief starts running and the policeman chases him. The thief and the policeman run at the speed of 10 km/hr and 11 km/hr respectively. What is the distance between them after 6 minutes?

(a) 100 m

(b) 120 m

(c)  $150 \,\mathrm{m}$ 

(d) 160 m



Q) A thief is noticed by a policeman from a distance of 200 m. The thief starts running and the policeman chases him. The thief and the policeman run at the speed of 10 km/hr and 11 km/hr respectively. What is the distance between them after 6 minutes?

(a) 100 m

(b) 120 m

(c) 150 m

(d) 160 m

Ans: (a)



Q)A motor boat, whose speed is 15 km/hour in still water goes 30 km down–stream and comes back in a total of 4 hour and 30 minutes. The speed of the stream is

(a) 4 km/hour

(b) 5 km/hour

(c) 6 km/hour

(d) 10 km/hour



Q)A motor boat, whose speed is 15 km/hour in still water goes 30 km down—stream and comes back in a total of 4 hour and 30 minutes. The speed of the stream is

(a) 4 km/hour

(b) 5 km/hour

(c) 6 km/hour

(d) 10 km/hour

**Ans: (b)** 



Q) Two trains, one is of 121 m in length at the speed of 40 km/hour and the other is of 99 m in length at the speed of 32 km/hour are running in opposite directions. In how much time will they be completely clear from each other from the moment they meet?

(a) 10 s

(b) 11 s

(c) 16 s

(d) 21 s



Q) Two trains, one is of 121 m in length at the speed of 40 km/hour and the other is of 99 m in length at the speed of 32 km/hour are running in opposite directions. In how much time will they be completely clear from each other from the moment they meet?

(a) 10 s

(b) 11 s

(c) 16 s

(d) 21 s

**Ans: (b)** 



Q) A man cycles with a speed of 10 km/h and reaches his office at 1 p.m. However, when he cycles with a speed of 15 km/h, he reaches his office at 11 am. At what speed sould he cycle, so that he reaces his office at 12 noon?

(a)  $12.5 \, \text{km/h}$ 

(b)  $12 \,\text{km/h}$ 

(c)  $13 \,\mathrm{km/h}$ 

(d)  $13.5 \,\text{km/h}$ 



Q) A man cycles with a speed of 10 km/h and reaches his office at 1 p.m. However, when he cycles with a speed of 15 km/h, he reaches his office at 11 am. At what speed sould he cycle, so that he reaces his office at 12 noon?

(a)  $12.5 \,\text{km/h}$ 

(b)  $12 \,\text{km/h}$ 

(c)  $13 \,\mathrm{km/h}$ 

(d)  $13.5 \,\text{km/h}$ 

**Ans: (b)** 



Q) The distance between two points (A and B) is 110 km. X starts running from point A at a speed of 60 km/h and Y starts running from point B at a speed of 40 km/h at the same time. They meet at a point C, somewhere on the line AB. What is the ratio of AC to BC?

(a) 3:2

(b) 2:3

(c) 3:4

(d) 4:3



Q) The distance between two points (A and B) is 110 km. X starts running from point A at a speed of 60 km/h and Y starts running from point B at a speed of 40 km/h at the same time. They meet at a point C, somewhere on the line AB. What is the ratio of AC to BC?

(a) 3:2

(b) 2:3

(c) 3:4

(d) 4:3

Ans: (a)



**Q)** A man starts from a place P and reaches the place Q in 7 hours. He travels  $1/4^{th}$  of the distance at 10 km/hour and the remaining distance at 12 km/hour. The distance, in kilometre, between P and Q is

(a) 72

(b) 80

(c) 90

(d) 70



**Q)** A man starts from a place P and reaches the place Q in 7 hours. He travels  $1/4^{th}$  of the distance at 10 km/hour and the remaining distance at 12 km/hour. The distance, in kilometre, between P and Q is

(a) 72

(b) 80

(c) 90

(d) 70

**Ans: (b)** 



**Q)** A train travelling at the speed of x km h crossed a 200 m long platform in 30 seconds and overtook a man walking in the same direction at the speed of 6 km/h in 20 seconds. What is the value of x?

- (a) 50
- (b) 54
- (c) 56

(d) 60



**Q)** A train travelling at the speed of x km h crossed a 200 m long platform in 30 seconds and overtook a man walking in the same direction at the speed of 6 km/h in 20 seconds. What is the value of x?

(a) 50

(b) 54

(c) 56

(d) 60

**Ans: (d)** 



- **Q)** A man starts from B to K, another from K to B at the same time. After passing each other they complete their journeys
  - in  $3\frac{1}{3}$  and  $4\frac{4}{5}$  hours, respectively. Find the speed of the second man if the speed of the first is 12 km/hr.
  - (a) 12.5 kmph

- (b) 10 kmph
- (c) 12.66 kmph
- (d) 20 kmph



**Q)** A man starts from B to K, another from K to B at the same time. After passing each other they complete their journeys

in  $3\frac{1}{3}$  and  $4\frac{4}{5}$  hours, respectively. Find the speed of the second man if the speed of the first is 12 km/hr.

(a) 12.5 kmph

- (b) 10 kmph
- (c) 12.66 kmph
- (d) 20 kmph

**Ans: (b)** 



Q) A passenger sitting in a train of length 100 m, which is running with speed of 60 km/h passing through two bridges, notices that he crosses the first bridge and the second bridge in time intervals which are in the ratio of 7: 4 respectively. If the length of first bridge be 280 m, then the length of second bridge is:

(a) 490 m

(b) 220 m

(c) 160 m

(d) Can't be determined



Q) A passenger sitting in a train of length 100 m, which is running with speed of 60 km/h passing through two bridges, notices that he crosses the first bridge and the second bridge in time intervals which are in the ratio of 7: 4 respectively. If the length of first bridge be 280 m, then the length of second bridge is:

(a) 490 m

(b) 220m

(c) 160 m

(d) Can't be determined

Ans: (c)



Q) A train after travelling 150 km meets with an accident and then proceeds with 3/5 of its former speed and arrives at its destination 8 h late. Had the accident occurred 360 km further, it would have reached the destination 4 h late. What is the total distance travelled by the train?

(a) 840km

(b) 960km

(c) 870km

(d) 1100 km



Q) A train after travelling 150 km meets with an accident and then proceeds with 3/5 of its former speed and arrives at its destination 8 h late. Had the accident occurred 360 km further, it would have reached the destination 4 h late. What is the total distance travelled by the train?

(a) 840km

(b) 960km

(c) 870km

(d) 1100km

Ans: (c)

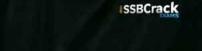
## CDS 2 2024

LIVE

# REVISION S

CLASS 4

SSBCrack EXAMS



**NAVJYOTI SIR** 

### REVISION TOPICS: (08/08/24)

Time and Work