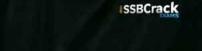
CDS 2 2024

LIVE

REVISION S

CLASS 4

SSBCrack EXAMS



NAVJYOTI SIR



08 August 2024 Live Classes Schedule

8:00AM 08 AUGUST 2024 DAILY CURRENT AFFAIRS RUBY MA'AM

9:00AM O8 AUGUST 2024 DAILY DEFENCE UPDATES DIVYANSHU SIR

SSB INTERVIEW LIVE CLASSES

9:00AM -- INTRODUCTION OF TAT & WAT ANURADHA MA'AM

AFCAT 2 2024 LIVE CLASSES

1:00PM -- (MAHA MARATHON SESSION - PART 4

NDA 2 2024 LIVE CLASSES

11:00AM GK - POLITY REVISION - CLASS 1 RUBY MA'AM

12:00PM PHYSICS REVISION - CLASS 4 NAVJYOTI SIR

1:00PM — MATHS REVISION - CLASS 4 NAVJYOTI SIR

2:00PM BIOLOGY REVISION - CLASS 4 SHIVANGI MA'AM

5:30PM — ENGLISH - MATCHING LIST - CLASS 1 ANURADHA MA'AM

CDS 2 2024 LIVE CLASSES

11:00AM GK - POLITY REVISION - CLASS 1 RUBY MA'AM

12:00PM PHYSICS REVISION - CLASS 4 NAVJYOTI SIR

2:00PM BIOLOGY REVISION - CLASS 4 SHIVANGI MA'AM

3:00PM MATHS REVISION - CLASS 4 NAVJYOTI SIR

5:30PM ENGLISH - MATCHING LIST - CLASS 1 ANURADHA MA'AM

EXA







Time and Work



Q Two workers A and B working together completed a job in 5 days. If A worked twice as efficiently as he actually did and

B worked $\frac{1}{3}$ as efficiently as he actually did, the work would have completed in 3 days. Find the time for A to complete

the job alone.

the job alone.

(a)
$$6\frac{1}{4}$$
 days

(b) $5\frac{3}{4}$ days

5 days

(d) None of these

A's | day work =
$$\left(\frac{1}{\chi}\right)$$

B's " = $\frac{1}{5} - \frac{1}{\chi} = \frac{\chi - 5}{5\chi}$

$$\frac{2\left(\frac{1}{x}\right) + \frac{1}{3}\left(\frac{x-5}{5\alpha}\right) = \frac{1}{3}$$

$$\frac{2}{x} + \frac{\chi - 5}{15x} = \frac{1}{3}$$

$$3(30+x-5)=15x$$

$$2 = \frac{25}{12} = 6\frac{3}{12} = 6\frac{1}{4} \text{ days}$$



Q Two workers A and B working together completed a job in 5 days. If A worked twice as efficiently as he actually did and

B worked $\frac{1}{3}$ as efficiently as he actually did, the work would have completed in 3 days. Find the time for A to complete the job alone.

- (a) $6\frac{1}{4}$ days (b) $5\frac{3}{4}$ days (c) 5 days (d) None of these

Ans: (a)



- Q) A contract is to be completed in 46 days and 117 men were set to work, each working 8 hours a day. After 33 days, 4/7 of the work is completed. How many additional men may be employed so that the work may be completed in time, each man now working 9 hours a day?
 - (a) 80 (b) 81 (c) 82 (d) 83

$$W = 117 \times 8 \times 46 =$$

Work done = $\frac{4}{7} \left(117 \times 8 \times 46 \right) =$



Q) A contract is to be completed in 46 days and 117 men were set to work, each working 8 hours a day. After 33 days, 4/7 of the work is completed. How many additional men may be employed so that the work may be completed in time, each man now working 9 hours a day?

(a) 80

(b) 81

(c) 82

(d) 83

Ans: (b)



- Q) A and B can do a piece of work in 30 and 36 days respectively. They began the work together but A leaves after some days and B finished the remaining work in 25 days. After how many days did A leave? χ days (a) 6 days (b) 5 days (c) 11 days(d) 10 days

(a) 8 days (b) 3 days (c) 11 days(d) 10 days
$$A \rightarrow \frac{1}{30} \qquad B \rightarrow \frac{1}{36} \qquad Remaining \quad work = 1 - \frac{112}{180} = \frac{1692}{180}$$

$$2 \left(\frac{1}{30} + \frac{1}{36}\right) \qquad \frac{1692}{180} = 25$$

$$2 \left(\frac{6+5}{180}\right) = 2 \left(\frac{11}{180}\right) \qquad \frac{1}{36}$$



- Q) A and B can do a piece of work in 30 and 36 days respectively. They began the work together but A leaves after some days and B finished the remaining work in 25 days. After how many days did A leave?
 - (a) 6 days (b) 5 days (c) 11 days(d) 10 days

Ans: (b)



Q) George takes 8 hours to copy a 50 page manuscript while Sonia can copy the same manuscript in 6 hours. How many hours would it take them to copy a 100 page manuscript, if they work together?

(a)
$$6\frac{6}{7}$$
 (b) 9 (c) $9\frac{5}{7}$ (d) 14

(s)
$$1 \text{ hour} \longrightarrow \frac{50}{6} \text{ pages}$$

Together, no. et pages in 1 hour =
$$50\left(\frac{1}{8}+\frac{1}{6}\right) = 50x\frac{7}{24} = \frac{175}{12}pages/hr$$

$$\frac{175}{12} \frac{pagus}{pagus/hr}$$

$$\frac{160 \times 12}{12} = \frac{4f}{7} hrs$$

$$\frac{145}{7} = 6\frac{6}{7}$$



- Q) George takes 8 hours to copy a 50 page manuscript while Sonia can copy the same manuscript in 6 hours. How many hours would it take them to copy a 100 page manuscript, if they work together?
 - (a) $6\frac{6}{7}$ (b) 9 (c) $9\frac{5}{7}$ (d) 14

Ans: (a)



Q) In an army camp ration is available for 100 soldiers for 10 days. After 2 days, 60 soldiers joined. Then, for how many more days will the remaining ration last?

(a) 7 days

(b) 6 days (x)

(c) 5 days

(d) 4 days

$$\frac{800}{160} = (100 \times 2) + (160)(2)$$

$$\frac{800}{160} = 2$$

$$2 = 5$$



Q)In an army camp ration is available for 100 soldiers for 10 days. After 2 days, 60 soldiers joined. Then, for how many more days will the remaining ration last?

(a) 7 days

(b) 6 days

(c) 5 days

(d) 4 days

Ans: (c)



Q) A is 40% more efficient than B and C is 20% less efficient than B. Working together, they can finish a work is 5 days. In how many days will A alone complete 70% of that work?

(a) 9 (b) 7 (c) 10 (d) 8

Let B do the work in
$$x$$
 clays. | B's | day work = $\frac{1}{x}$

A $\Rightarrow \frac{1}{x} \left(\frac{1+3}{5} \right) = \left(\frac{7}{5x} \right)$
 $\Rightarrow \frac{7}{x} \left(\frac{1-1}{5} \right) = \frac{4}{5x}$
 $\Rightarrow \frac{7}{5x} \Rightarrow \frac{7}{5x$



Q) A is 40% more efficient than B and C is 20% less efficient than B. Working together, they can finish a work is 5 days. In how many days will A alone complete 70% of that work?

(a) 9

(b) 7

(c) 10

(d) 8

Ans: (d)



- Q) A can do 50% more work than B in the same time. B alone can do a piece of work in 30 hours. B starts working and had already worked for 12 hours when A joins him. How many hours should B and A work together to complete the remaining work?

6 hours (a)

- (b) 12 hours
- (c) 4.8 hours
- (d) 7.2 hours

(c) 4.8 hours

(d) 7.2 hours

$$\frac{1}{30} + \frac{1}{30}$$

A " " " $\frac{3}{30} = \frac{1}{30}$

$$\frac{\frac{3}{5}}{\left(\frac{1}{30} + \frac{1}{20}\right)}$$



Q) A can do 50% more work than B in the same time. B alone can do a piece of work in 30 hours. B starts working and had already worked for 12 hours when A joins him. How many hours should B and A work together to complete the remaining work?

(a) 6 hours

(b) 12 hours

(c) 4.8 hours

(d) 7.2 hours

Ans: (d)



Q) A can do a piece of work in 10 days, while B alone can do it in 15 days. They work together for 5 days and the rest of the work is done by C in 2 days. If they get ₹ 450 for the whole work, how should they divide the money?

- - ₹225, ₹150, ₹75 (b) ₹250, ₹100, ₹100
- (c) $\neq 200, \neq 150, \neq 100$ (d) $\neq 175, \neq 175, \neq 100$



Q) A can do a piece of work in 10 days, while B alone can do it in 15 days. They work together for 5 days and the rest of the work is done by C in 2 days. If they get ₹ 450 for the whole work, how should they divide the money?

- ₹ 225, ₹ 150, ₹ 75 (b) ₹ 250, ₹ 100, ₹ 100
- (c) $\neq 200, \neq 150, \neq 100$ (d) $\neq 175, \neq 175, \neq 100$

Ans: (a)



Q) A and B are two taps which can fill a tank individually in 10 minutes and 20 minutes respectively. However, there is a leakage at the bottom, which can empty a filled tank in 40 minutes. If the tank is empty initially, how much time will both the taps take to fill the tank with leakage?

(a) 2 minutes

(b) 4 minutes

(c) 5 minutes

(d) 8 minutes



Q) A and B are two taps which can fill a tank individually in 10 minutes and 20 minutes respectively. However, there is a leakage at the bottom, which can empty a filled tank in 40 minutes. If the tank is empty initially, how much time will both the taps take to fill the tank with leakage?

(a) 2 minutes

(b) 4 minutes

(c) 5 minutes

(d) 8 minutes

Ans: (d)



Q)A certain number of persons can complete a work in 34 days working 9 h a day. If the number of persons is decreased by 40%, then how many hours a day should the remaining persons work to complete the work in 51 days?

(a) 19

(b) 8

(c) 12

(d) 10



Q)A certain number of persons can complete a work in 34 days working 9 h a day. If the number of persons is decreased by 40%, then how many hours a day should the remaining persons work to complete the work in 51 days?

(a) 19

(b) 8

(c) 12

(d) 10

Ans: (d)



Q) The efficiency of P is twice that of Q, whereas the efficiency of P and Q together is three times that of R. If P, Q and R work together on a job, in what ratio should they share their earnings?

(a) 2:1:1

(b) 4:2:1

(c) 4:3:2

(d) 4:2:3



Q) The efficiency of P is twice that of Q, whereas the efficiency of P and Q together is three times that of R. If P, Q and R work together on a job, in what ratio should they share their earnings?

(a) 2:1:1

(b) 4:2:1

(c) 4:3:2

(d) 4:2:3

Ans: (a)



Q)2 men and 1 woman can complete a piece of work in 14 days, while 4 women and 2 men can do the same work in 8 days. If a man gets ₹ 90 per day, what should be the wages per day of a woman?

(a) ₹48

(b) ₹ 60

(c) ₹ 72

(d) ₹135



Q)2 men and 1 woman can complete a piece of work in 14 days, while 4 women and 2 men can do the same work in 8 days. If a man gets ₹ 90 per day, what should be the wages per day of a woman?

(a) ₹ 48

(b) ₹ 60

(c) ₹ 72

(d) ₹135

Ans: (b)



Q) P and Q together can do a job in 6 days. Q and R can finish

the same job in $\frac{60}{7}$ days. P started the work and worked for

3 days. Q and R continued for 6 days. Then the difference of days in which R and P can complete the job is

- (a) 8
- (b) 12 (c) 10
- (d) 15



Q) P and Q together can do a job in 6 days. Q and R can finish

the same job in $\frac{60}{7}$ days. P started the work and worked for

3 days. Q and R continued for 6 days. Then the difference of days in which R and P can complete the job is

(a) 8

- (b) 12 (c) 10
- (d) 15

Ans: (c)

CDS 2 2024

LIVE

REVISION STATES

CLASS 5

SSBCrack EXAMS



NAVJYOTI SIR

REVISION TOPICS:

(09/08/24)

• SI AND CI

Time and Work