SRI KRISHNAVENI BANKING COACHING CENTRE

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TIME & WORK

Max.Marks: 50 Time: 1/2 Hour

- 1.18 men together can complete a work in 14 days. In how many days 12 men finish that work?
 - A. 9.3 days
- B. 21 days
- C. 12 days
- D. 16 days
- E. None of these
- 2."A" can complete a work in 240 days and A and B together can complete the same work in 144 days. In what time does B alone complete that work?
 - A. 15 days
- B. 96 days
- C. 148 days
- D. 360 days
- E. None of these
- 3.24 men can reap 10 acres in 8 days. How many men are required to reap 15 acres in 6 days?
 - A. 32
- B. 48
- C. 56
- D. 40
- E. None of these
- 4.A, B and C can do a piece of work in 30 days, 24 days and 40 days respectively. They started working together but c left 4 days before the completion of the work. In how many days was the work finished?
 - A.5
- B. 11
- C. 12
- D. 8
- E. None of these
- 5. If 2 men and 3 boys can do a piece of work in 8 days and 3 men and 2 boys can do it in 7 days. In how many days will 5 men and 4 boys take to complete it?
 - A. 4 days
- B. 6 days
- C. 7 days
- D. 3 days
- E. None of these
- 6. A is thrice as efficient as B and therefore able to complete the work 40 days less than B. In what time B alone can complete that work? (days).
 - A. 60
- B. 20
- C. 40
- D. 25
- E. None of these

- 7.16 men can do a piece of work in 16 days. 4 days after they started the work, 8 more men joined them. How many days will they now take to complete the remaining work?
 - A. 12 days
- B. 8 days
- C. 15 days
- D. 6 days
- E. None of these
- 8.57 men can complete a piece of work in 16 days. How many men must be hired to complete the same work in 12 days?
 - A. 76
- B. 19
- C. 38
- D. 18
- E. None of these
- 9. Tanisha can complete a piece of work in 8 days. Manisha is 60 % more efficient than Tanisha. In how many days they both can complete the work, working together?
 - A. 3 1/7 days
- B. 3 1/13 days
- C. 5 1/11 days
- D. 4 1/13 days
- E. None of these
- 10. 15 men take 21 days of 8 hours each to do a piece of work. How many days of 6 hours each would 21 women take, if 3 women do as much as 2 men?
 - A. 18
- B. 20
- C. 25
- D. 30
- E. None of these
- 11. 2 men or 3 women alone can complete a piece of work in 4 days. In how many days can 1 woman and one man together complete the same work?
 - A. 16 days
- B. 24/5 days
- C. 12/1.75 days
- D. 30 days
- E. None of these
- 12. 8 men can complete a piece of work in 20 days. 8 women can complete the same work in 32 days. In how many days will 5 men and 8 women together complete the same work?
 - A. 16 days
- B. 12 days
- C. 14 days
- D. 10 days
- E. None of these

- 13. Two pipes A and B can fill a tank in 3 hours and 4 hours respectively. A drain pipe C can empty a full tank in 6 hours. In what time can the tank be filled when all the three are open simultaneously?
 - A. 7.5 hours

B 2.8 hours

C. 2.4 hours

D. 6 hours

- E. None of these
- 14. A tank can be filled by two taps in 6 hours and 9 hours respectively. The first tap was opened at 7 am and the second at 8 am. At what time will the tank befull?

A. 1 pm B. 12 am C. 11 am D. 2 pm

- E. None of these
- 15. Pipe A can fill a tank in 5 hours, pipe B in 10 hours, pipe C in 30 hours. If all the pipes are open, in how many hours will the tank be filled?
 - A. 2

B. 2.5 C. 3

D. 3.5

- E. None of these
- 16. A and B can do a job together in 7 days. A is 1 3/4 times as sufficient as B. The same job can be done by A alone in:

A. 9 1/3 days

B. 11 days

C. 12 1/4 days

D. 16 1/3 days

- F. None of these
- 17. A works twice as fast as B. If B can complete a work in 12 days independently, the number of days in which A and B together finish the work is?

A. 4 days

B. 6 days

C. 8 days

D. 18 days

E. None of these

18. A, B and C can complete a piece of work in 24, 6 and 12 days respectively, working together, they will complete the same work in:

A. 1/24 day

B. 7/24 day

C. 3 3/7 day

D. 4 days

- E. None of these
- 19. A can do a piece of work in 16 days and B can do the same work in 12 days. With the help of C, they did the work in 4 days only. Then C alone can do the work in?

A. 9 1/5 days

B. 9 2/5 days

C. 9 3/5 days

D. 10 days

- E. None of these
- 20. A takes twice as much time as B or thrice as much time as C to finish a peiece of work. Working together, they can finish the work in 2 days. B can do the work in?

A. 4 days B. 6 days C. 8 days D. 12 days

E. None of these

	-	Key	She	et	
1. B	6.	Α	11.	В	16. B
2. D	7.	B.	12.	A	17. A
3. B	8.	В	13.	C	18. C
4. B	9.	В	14.	C	19. C
5. A	10	. D	15.	С	20. B

Answers: -

Explanation:-

$$B' > workdays = \frac{xy}{x-y} = \frac{840 \times 144}{840 - 144} = \frac{940 \times 144}{96} = 360 day$$

16M+ 24B = 21M + 14B

$$5M = 10B$$
 $1M = 2B$
 $2M + 3B = (2x2) + 3$
 $= 7 \text{ boys} - 8 \text{ days}$
 $5M + 4B = (5x2) + 4$
 $= 14 \text{ boys} - ?$
 $= \frac{7}{14} \times 8$
 $= 4 \text{ days}(A)$
 $3x - x = 40 \text{ days}$, B can complete in 3x days.

 $2x = 40$
 $3x - x = 40 \text{ days}$
 $2x = 40$
 $3x - x = 40 \text{ days}$
 $3x - x = 40 \text{ d$

:. Required Men = 76 - 57 = 19 More men (B)

1

Thus manisha is 60% more efficient than Tanisha.

.. Tourisha takes 60% more time i.e., 160%.

160% - 8

1807 - ?

100 x8 = 5 days.

:. 34 both work togther = $\frac{8\times5}{8+5} = \frac{40}{13} = 3\frac{1}{13} days (B)$

(6) Als: 3 women = 2 Men

=> 21 women = 14 Men.

men	Days	Houry	
15	8	821	
		9	
14	6		

= 15 x = x21 = 30 days (D)

1 Ans: - 2 Men = 3 women

a men = 3 women.

1M+1W = 3W+1W = 5W

Men Days
$$\frac{3}{3} \frac{4}{4} \frac{3}{5} \times 4$$

$$= \frac{3\times 2}{5} \times 4 = \frac{34}{5} \text{ days}(8)$$

8 m x 20 = 8 w x 32

20M = 38W

:. 5M+8 W = 8W+8W = 1610.

= \frac{8}{16} \times 32 = 16 days (A)

(3) Soli-
2 hour=
$$\frac{1}{3} + \frac{1}{4} - \frac{1}{6}$$

= $\frac{4+3-3}{12}$
= $\frac{5}{18}$

.. Total hours = 12 = 2.4 hours (c).

(14) Soli- First pipe fills & part in one hour.

The Balance 1-1 = 5 gilled by both Pipes

$$=\frac{5}{6} \times \frac{6 \times 9}{6 + 9} = \frac{5}{6} \times \frac{6 \times 9}{18} = 3$$
 hows.

.. The tounk is filled in = gam +3

= 11 am (c)

(15) AWS: - past filled by (A+B+c) in 1 hours = (1/5 + 1/0 + 1/30)

.. All pipes together fill the tank in 13' hours (c)

(1) Ams:- A's 4 day work: B's # day work = 7:1 = 7:4.

= 11 days (B)

(Ams:- Ratio of rates of working = 2:1

: Ratio of times takes = 1:2

B's one day work = 12

similarly, A's one day work = 16.

: (++B)'s one day work = ++ += = = = + i.e., 4 days (A)

: c's one day work =
$$\frac{1}{4} - (\frac{1}{16} + \frac{1}{12})$$

= $\frac{1}{4} - \frac{7}{48}$
= $\frac{5}{48}$.

1.e., 48 anys => 93 days (c)

(30) And: - Let, Time taken by A to finish the WOOK = X hours.

.. B's time tourcen = of hours.

c's time tourcen = of hours.

than
$$\frac{1}{x} + \frac{9}{2} + \frac{3}{2} = \frac{1}{8}$$

$$\frac{6}{2} = \frac{1}{8}$$

.. B's time to finish work =
$$\frac{\chi}{a} = \frac{12}{9} = 6$$
 howes (B)