Time and Work

1. 36 men can complete a piece of work in 18 days. In how many days will 27 men complete the same work?
a) 12 b) 18 c) 22 d) 24 e) None of the above

2. 4 men can repair a road in 7 hours. How many men are required to repair the road in 2 hours?
a) 7 b) 14 c) 17 d) 10

3. Some persons can do a piece of work in 12 days. Two times the number of such persons will do half of that work in?
a) 6 days b) 4 days c) 3 days d) 12 days

4. 39 persons can repair a road in 12 days, working 5 hours a day. In how many days will 30 persons, working 6 hours a day, complete the work?
a) 10 b) 13 c) 14 d) 15

5. A bread making machine can make bread of 50 kg dough in 3 minutes. How many such machines are required to make breads of 300 kg dough in 6 minutes?
a) 6 b) 3 c) 4 d) 5

6. To fill a storage tank of wheat, 20 containers full of wheat are required. How many containers of wheat will be required to fill the same tank if the capacity of the containers is reduced to two-fifth of their present capacity?
a) 30 b) 25 c) 50 d) 60

7. If 7 spiders make 7 webs in 7 days, then 1 spider will make 1 web in how many days?
a) 1 b) 0 c) 7 d) 49

8. If 15 oxen or 20 cows can eat the grass of a field in 80 days, then in how many days will 6 oxen and 2 cows eat the same grass?
a) 40 b) 60 c) 100 d) 160

9. A car engine is half filled and holds 15 litres of petrol. What fraction of the engine is full if it contains 18 litres of petrol?
a) ¼ b) 2/3 c) 2/5 d) 3/5

10. A does a work in 10 days and B does the same work in 15 days. In how many days they together will do the same work?
a) 5 days b) 6 days c) 7 days d) 8 days

11. A, B and C can do a piece of work in 7 days, 14 days and 28 days respectively. How long will they taken, if all the three work together?
a) 3 days b) 4 days c) 5 days d) 6 days

12. Sakshi can do a piece of work in 20 days. Tanya is 25% more efficient than Sakshi. The number of days taken by Tanya to do the same piece of work is?
a) 15 b) 16 c) 18 d) 25

13. A is twice as good a work man as B and together they finish the work in 14 days. In how many days A alone can finish the work?
a) 20 b) 21 c) 22 d) 23

14. A is twice as good a work man as B and together they finish the work in 14 days. In how many days B alone can finish the work?
a) 20 b) 21 c) 42 d) 35

15. A and B together can complete a piece of work in 35 days while A alone can complete the same work in 60 days. B alone will be able to complete the same working in:
a) 74 Days b) 80 Days c) 84 Days d) 90 Days

16. A and B can do a job together in 7 days. A is 7/4 times as efficient as B. The same job can be done by A alone in:
a) 28/3 days b) 11 days c) 49/4 days
d) 49/3 days

17. A can do a piece of work in 4 days. B can do it in 5 days. With the assistance of C they completed the work in 2 days. Find how many days can C alone do it?
a) 10 days b) 20 days c) 5 days d) 4 days

18. A and B can do a work in 12 days, B and C in 15 days, C and A in 20 days. If A,B and C work together, then in how many days will they complete the work?
a) 5 days b) 47/6 days c) 10 days d) 47/3 days

19. 5 men and 12 boys finish a piece of work in 4 days, 7 men and 6 boys do it in 5 days. The ratio between the efficiencies of a man and boy is?
a) 1:2 b) 2:1 c) 2:3 d) 6:5

20. A and B can complete a work in 15 days and 10 days respectively. They started doing the work together but after 2 days B had to leave and A alone completed the remaining work. In how many days was the whole work completed?
a) 8 days b) 10 days c) 12 days d) 15 days

21. A cistern can be filled by two pipes A and B in 10 hours and 15 hours respectively and is then emptied by a tap in 8 hours. If all the taps are opened, the cistern will be fill in:
a) 21 hours b) 22 hours c) 23 hours d) 24 hours
e) None of the above

22. Two pipes A and B can fill a tank in 4 and 5 hours respectively. If they are turned up alternately for one hour each, the time taken to fill the tank is?
a) 2 hrs 15 min b) 4 hrs 24 min c) 5 hrs d) 3 hrs

23. A cistern is normally filled in 8 hours but takes two hours longer to fill because of a leak in its bottom. If the cistern is full, the leak will empty it in?
a) 16 hrs b) 20 hrs c) 40 hrs d) 25 hrs

24. One pipe can fill a tank three times as fast as another pipe. If together the two pipes can fill the tank in 36 minutes, then the slower pipe alone will be able to fill the tank in:
a) 81 min b) 108 min c) 144 min d) 192 min

25. An outlet pipe can empty 2/3 rd of a cistern in 12 minutes. In 8 minutes, what part of the cistern will be emptied?
a) 4/9 b) 2/3 c) 4/7 d) ⅙

26. Two pipes function simultaneously the reservoir will be filled in 12 hours. One pipe fills reservoir 10 hours faster than the other. How many hours does the faster pipe take to fill the reservoir?
a) 25 hrs b) 28 hrs c) 20 hrs d) 35 hrs

27. Three pipes of same capacity can fill a tank in 8 hours. If there are only two pipes of same capacity, the tank can be filled in.
a) 17 hours b) 12 hours c) 16 hours d) 24 hours

28. Two pipes A and B can fill a tank in 20 and 30 minutes respectively. If both the pipes are used together, then how long will it take to fill the tank?
a) 12 min b) 15 min c) 25 min d) 50 min