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**Advance Level**

1. At a telephone exchange, three phones ring at intervals of 20s, 24s and 30s. If they ring together at 11:25 am, when will they next ring together?

[RRB NTPC 2016]

- (a) 11: 29 am (b) 11:51 am  
(c) 11: 27 am (d) 12: 09 am

2. In a fire range, four shooters are firing at their respective targets. The first, the second, the third and the fourth shooters hit the target once in every 5s, 6s, 7s and 8s, respectively. If all of them hit their target at 9:00 am, when will they hit their target together again?

[CDS 2014]

- (a) 9:04 am (b) 9:08 am  
(c) 9: 14 am (d) 9:20 am

3. Three containers contain 403 L, 434 L, 465 L of diesel, respectively. Then, the maximum capacity of a container that can measure the diesel of the three containers exact number of times is

[SSC CPO 2014]

- (a) 31 L (b) 62 L  
(c) 41 L (d) 84 L

4. The maximum number of students among whom 1001 pens and 910 pencils can be distributed in such a way that each student gets same number of pens and same number of pencils, is

[SSC MTS 2013]

- (a) 91 (b) 910  
(c) 1001 (d) 1911

5. The total number of integers between 100 and 200, which are divisible by both 9 and 6 is

- (a) 5 (b) 6  
(c) 7 (d) 8

6. The number nearest to 43582 divisible by each of 25, 50 and 75 is

- (a) 43500 (b) 43650

(c) 43600

(d) 43550

7. If the students of 9th class are arranged in rows of 6, 8, 12 and 16, no student is left behind. Then, the possible number of students in the class is

[SSC CGL 2013]

- (a) 60 (b) 72  
(c) 80 (d) 96

8. Three men A, Band C go walking round a circle of 1 km in circumference at the rate of 10, 20 and 40 m/min, respectively. If they all start together and walk in the same direction, when will they again be together at the same place?

[RRB (TC/CC) 2009]

- (a) After 50 min (b) After 240 min  
(c) After 800 min (d) After 100 min

9. If  $x$  is a prime number, LCM of  $x$  and its successive number would be

[RRB NTPC 2016]

- (a)  $x$  (b)  $x + 1$   
(c)  $x(x + 1)$  (d)  $\frac{x}{x+1}$

10. What is the least number, which when divided by 5, 6, 7 and 8 gives the remainder 3 but is divisible by 9?

[SSC CPO 2010, 2009]

- (a) 1463 (b) 1573  
(c) 1683 (d) 1793

11. The traffic lights at three different road crossings change after 24s, 36s and 54s, respectively. If they all change simultaneously at 10: 15:00 am, then at what time will they again change simultaneously?

[SSC CGL 2011]

- (a) 10: 16:54 am (b) 10: 18:36 am  
(c) 10: 17: 02 am (d) 10: 22: 12 am

12. From a point on a 5 km long circular track, A, Band C started running in the same direction at the same time with the speeds of  $2\frac{1}{2}$  km/h, 3 km/h and 2 km/h, respectively. Then, on the starting point, all three will meet again after

- (a) 30 h (b) 6 h







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**(c) 10 h**

(d) 15 h

13. There are three bells which ring at regular intervals of 30, 45 and 60s respectively. If all of them ring together at 1: 00 pm, at what time will they ring together again? [UP Police SI 2017]

**(a) 1:03 pm**

(b) 1: 24 pm

(c) 1:30 pm

(d) 1:12 pm

14. Four bells ring at the intervals of 5, 6, 8 and 9s, respectively. All the bells ring simultaneously at some time. They will again ring simultaneously after

[MP Police SI 2017]

(a) 12 min

**(b) 6 min**

(c) 24 min

(d) 18 min

15. A, B and C start running at the same time and at the same point in the same direction in a circular stadium. A completes a round in 252 s, B in 308s and C in 198s. After what time will they meet again at the starting point? [SSC Constable 2012]

(a) 26 min 18s

(b) 42 min 36s

(c) 45 min

**(d) 46 min 12s**

16. There are 24 peaches, 36 apricots and 60 bananas and they have to be arranged in several rows in such a way that every row contains the same number of fruits of only one type. What is the minimum number of rows required for this arrangement?

[SSC (10+2) 2014]

(a) 12

(b) 9

**(c) 10**

(d) 6

17. Six bells commence ringing together at intervals of 2, 4, 6, 8, 10 and 12s, respectively. In 30 min, how many times do they ring together?

[SSC CGL 2014]

**(a) 16**

(b) 15

(c) 10

(d) 4

18. A, B and C start together from the same point to travel around a circular island of 30 km in circumference. A and B are travelling in the same

direction and C is in the opposite direction. If A travels 5 km, B travels 7 km and C travels 8 km in an hour, then they all come together again after

[SSC CGL 2014]

(a) 25 h

**(b) 30 h**

(c) 15 h

(d) 20 h

19. Three sets of English, Mathematics and Science books containing 336, 240 and 96 books, respectively have to be stacked in such a way that all the books are stored subject wise and the height of each stack is the same. Total number of stacks will be

[SSC CGL 2007]

**(a) 14**

(b) 21

(c) 22

(d) 48

