

Add. 41-42A, Ashok Park Main, New Rohtak Road, New Delhi-110035 +91-9350679141

- (a) 0.96 m (b) 9.60 m
- (c) 19.20 m (d) 96 m
- **16.** Traffic lights at three different points are changing respectively at 24, 48 and 72 second. If alll the three are changed together at 9 : 10 : 24 hours, then when will the next changes take place together?
  - (a) 9:12:25 hrs. (b) 9:10:48 hrs.
  - (c) 9:12:48 hrs. (d) 9:12:40 hrs
- 17. A, B and C start at the same time in the same direction to run around a circular stadium. A completes one around in 252 seconds, B in 308 seconds and C in 198 seconds, all starting at the same point. After what time will they meet again at the starting point?
  - (a) 26 minutes 18 seconds
  - (b) 42 minutes 36 seconds
  - (c) 45 minutes
  - (d) 46 minutes 12 seconds
- **18.** A, B and C start at the same time in the same direction to run around a circular stadium of length 12 km and speeds 3 km/h, 4 km/h and 6 km/h respectively. After what time will they meet again at the starting point?
  - (a) 16 h (b) 12 h
  - (c) 24 h
- **19.** The smallest number from which if 7 subtracted, is exactly divisible by 2, 4, 3, 5, 6, 8 and 10 is-

(d) 28 h

(d) 137

(d) 39

- (a) 113 (b) 120
- (c) 127
- **20.** The smallest number from which if 8 added is exactly divisible by 10, 12, 15 and 20 is-

(a) 60
(b) 68
(c) 52
(d) 38

- 21. Which is the smallest number that can be subtracted from 1936 so that on being divided by 9, 10, 15 the remainder is 7 everytime?
  - (a) 93 (b) 46
  - (c) 76

- **22.** The smallest number that will divide 4, 6, 8, 12 and 16 leaving a remainder 2 in each case is-
  - (a) 46 (b) 50
  - (c) 48 (d) 56
- **23.** Find the greatest number that will divide 187, 233 and 279 so as to leave the same remainder in each case.
  - (a) 30 (b) 36
  - (c) 46 (d) 56
- 24. The numbers 2272 and 875 divided by a three digit number N, giving the same reaminder. The sum of the digits of N is-
  - (a) 13 (b) 10 (c) 14 (d) 11
- **25.** The numbers 1305, 4665 and 6905 divided by a four digit number N, giving the same remainder. The sum of the digits of N is-

(a) 4	(b) 5
(c) 6	(d) 8

- **26.** The greatest number which can divide 110 and 128 leaving the same remainder 2 in each case, is-
  - (a) 8 (b) 18
  - (c) 28 (d) 38
- **27.** The greatest number which can dividing 122 and 243 leaves remainders 2 and 3 respectively, is-
  - (a) 12(b) 24(c) 30(d) 120
- **28.** The greatest number which on dividing 989 and 1327 leaves remainders 5 and 7 respectively, is-

(a) 8	(b) 53

- (c) 24 (d) 32
- **29.** The least number, which when divided by 12, 15 and 16 leaves 7, 10 and 11 as remainders respectively, is-

(a) 115	(b) 235
(c) 247	(d) 475

- **30.** The least number, which when divided by 5, 6, 7 and 8 leaves a remainders 3, but divided by 9 leaves
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	no remainder, i	S-		(c) 8 and 6	(d) 8 and 10		
	(a) 1677	(b) 1683	39.	The L.C.M of two numbers is 45 times the			
	(c) 2523	c) 2523 (d) 3363		H.C.F. If one of the numbers is 125 and the sum of H.C.F. and L.C. M is 1150, the other number			
31.	The least number, which when divided by 20, 25, 35 and 40 leaves remainder 14, 19, 29 and 34			of H.C.F and L.C. M is 1150, the other number is-			
	respectively, is-			(a) 215	(b) 220		
	(a) 1400	(b) 1394		(c) 225	(d) 235		
	(c) 1406	(d) 1388	40.		prime numbers is 117. Their		
32.	Find the largest number of five digits exactly divisible by 12, 16, 18, 24, 32.			L.C.M should be- (a) 1 (b) 117			
	(a) 99936	(b) 99963		(c) equal to HCF			
	(c) 99972	(d) 99982		(d) cannot bo calcul	lated		
33.		est number of five digits exactly	41.		e different numbers is 120. ving cannot be their HCF?		
	(a) 10432	(b) 10368		(a) 8	(b) 12		
	(a) 10452 (c) 10064	(d) 10054		(c) 24	(d) 35		
34			42.	The H.C.F. of two	numbers is 8. Which one the		
54.	4. Find largest four-digit number which when divided by 12, 18, 21 and 24 leaves a remainder of 6 in			following can never be their LCM?			
	each case, is-			(a) 24	(b) 48		
	(a) 9582	(b) 9423		(c) 56	(d) 60		
	(c) 9986	(d) 9982	43.	H.C.F. of 3240, 360	0 and a third number is 36 and		
35.		vo numbers is 1296 and HCF is 96. Imbers is 864 <mark>then th</mark> e other is-		their LCM is $2^4 \times 3^5 \times 5^2 \times 7^2$ . The third number is-			
	(a) 72	(b) 64		(a) $2^2 \times 3^5 \times 7^2$	(b) $2^2 \times 5^3 \times 7^2$		
	(c) 144	(d) 3 <mark>6</mark>			(d) $2^3 \times 3^5 \times 7^2$		
36.	The H.C.F. of two numbers is 11 and their LCM is 7700. If one of the number is 275, then the other is:			(c) $2^5 \times 5^2 \times 7^2$ (d) $2^3 \times 3^5 \times 7^2$ The sum of two numbers is 216 and their HCF is			
				27. The nubers are:			
	(a) 279	(b)283		(a) 27, 189	(b) 108, 108		
	(c) 308	(d) 318		(c) 200, 16	(d) 100, 116		
37.		The L.C.M of two numbers is 495 and their H.C.F s 5. If the sum of the number is 100, then their		The ratio of two numbers is 3:4 and their HCF is 4. The numbers are-			
	difference is-			(a) 9, 12	(b) 12, 16		
	(a) 10	(b) 46		(c) 16, 18	(d) 20, 24		
	(c) 70	(d) 90	46.	The ratio of two nur	mbers is 4:5 and their HCF is		
38.	The product of the L.C.M and H.C.F of two			2. The LCM is-			
	numbers is 24. The difference of two numbers is 2. Find the numbers-			(a) 20	(b) 10		
	(a) 2 and 4	(b) 6 and 4		(c) 40	(d) 60		
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47.	The ratio of two numbers is 2:3 and their LCM is 48. The number are-			The sum of two numbers is 36 and their HC How many number of pairs may be possib				
	(a) 16, 24	(b) 8, 6		(a) 1	(b) 2			
	(c) 12, 18	(d) 12, 24		(c) 3	(d) 4			
48.	The ratio of two numbers is 3:2 and their LCM is 72. Their HCF is-			A number when divided by 10 leaves a remainder 9, when divided by 9 leaves a remainder of 8,				
	(a) 24	(b) 3		when divided by 8 leaves a remainder of				
	(c) 6	(d) 12		7, When divided by 2 leaves a remainder of 1. Find the number				
				(a) 31	(b) 1029			

(c) 2519 (d) 1679

## ANSWERS

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1.	(d)	10.	(b)	19.	(c)	28.	(c)	37.	(a)	46.	(c)
2.	(c)	11.	(a)	20.	(c)	29.	(b)	38.	(b)	47.	(a)
3.	(a)	12.	(a)	21.	(d)	30.	(b)	39.	(c)	48.	(a)
4.	(c)	13.	(b)	22.	(b)	31.	(b)	40.	(b)	49.	(c)
5.	(a)	14.	(c)	23.	(c)	32.	(a)	41.	(d)	50.	(c)
6.	(b)	15.	(b)	24.	(b)	33.	(b)	42.	(d)		
7.	(c)	16.	(c)	25.	(a)	34.	(a)	43.	(a)		
8.	(d)	17.	(d)	26.	(b)	35.	(c)	44.	(a)		
9.	(c)	18.	(b)	27.	(d)	36.	(c)	45.	(b)		



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