

# 108 DAYS ONLINE COACHING DAY(43) - 24/10/2019 THURSDAY

HCF and LCM



Name of the candidate \*

M3

Place of the candidate \*

Thiruvananthapuram

WHATSAPP NUMBER (JOINED IN SAI EDUCATION ONLINE COACHING PLATFORM) \*

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Please watch the following classes and answer the following questions

<https://youtu.be/gGbckXOp12o>  
<https://youtu.be/5mmuaosXxa8>  
<https://youtu.be/mevKK9-etPI>  
<https://youtu.be/c7ls3D1uovI>  
[https://youtu.be/Jn09LXu\\_tvo](https://youtu.be/Jn09LXu_tvo)

1. Find the greatest number that will divide 43, 91 and 183 so as to leave the same remainder in each case. \* 1 point

- A. 4  
 B. 7  
 C. 9  
 D. 13

2. The H.C.F. of two numbers is 23 and the other two factors of their L.C.M. are 13 and 14. The larger of the two numbers is: \* 1 point

- A. 276  
 B. 299  
 C. 322  
 D. 345

3. Six bells commence tolling together and toll at intervals of 2, 4, 6, 8, 10 and 12 seconds respectively. In 30 minutes, how many times do they toll together? \*

1 point

- A. 4
- B. 10
- C. 15
- D. 16

4. The greatest number of four digits which is divisible by 15, 25, 40 and 75 is: \*

1 point

- A. 9000
- B. 9400
- C. 9600
- D. 9800

5. The product of two numbers is 4107. If the H.C.F. of these numbers is 37, then the greater number is: \*

1 point

- A. 101
- B. 107
- C. 111
- D. 185

6. The number of pairs of positive integers whose sum is 99 and HCF is 9 \*

1 point

- 4
- 3
- 2
- 5

7. Find the L.C.M. of 14, 56, 91 and 84. \*

1 point

- 2184
- 1824
- 2148
- 2814

8. Find the HCF of  $(4\frac{1}{2}, 6\frac{1}{2}, 10\frac{1}{2})$  \*

1 point

- $\frac{2}{3}$
- $\frac{3}{2}$
- $\frac{1}{2}$
- $1\frac{1}{2}$

9. Find the LCM of( 4 1/2,6/2,10 1/2) \*

1 point

- 36
- 35
- 33
- 63

10. Find the H.C.F.of 0.6,9.6 and 0.36. \*

1 point

- 6
- 12
- 24
- 3

11. Find the LCM.of 0.6,9.6 and 0.36. \*

1 point

- 1240
- 1420
- 1440
- 1220

12. If H.C.F. and L.C.M. of two numbers are 3 and 60 respectively and one number is 12 then find the other number. \* 1 point

- 5
- 15
- 25
- 10

13. The H.C.F of two numbers, each having three digits, is 17 and their L.C.M is 714. Sum of the numbers will be: \* 1 point

- 122
- 212
- 221
- 121

14. Find the greatest number of six digits which on being divided by 6, 7, 8, 9 and 10 leaves 4, 5, 6, 7 and 8 as remainders respectively. \* 1 point

- 99718
- 99178
- 99187
- 99781

15. What least number must be subtracted from 1936 so that the remainder when divided by 9, 10,15 will leave in each case the same remainder 7? \* 1 point

- 93
- 39
- 63
- 36

16. Find the greatest number which will divide 410, 751 and 1030 leaving a remainder 7 in each case. \* 1 point

- 13
- 22
- 21
- 31

17. Find the H.C.F and L.C.M of 1.75,5.6 and 7. \* 1 point

- 82
- 22
- 88
- 28

18. Two bills of Rs 6075 and Rs 8505 respectively are to be paid separately by cheques of same amount. Find the largest possible amount of each cheque. \*

- 1125
- 1251
- 1215
- 1512

19. A garden consists of 135 rose plants planted in certain number of columns. There are another set of 225 marigold plants which is to be planted in the same number of columns. What is the maximum number of columns in which they can be planted? \*

- 44
- 55
- 45
- 54

20. A rectangular courtyard 4.55 meters long and 5.25 meters wide is paved exactly with square tiles of same size. Find the largest size of the tile used for this purpose? \*

- a. 25 cm
- b. 45 cm
- c. 21 cm
- d. 35 cm



21. 5 bells commence tolling together and toll at intervals 2, 4, 6, 8 and 10 seconds respectively. Find in 40 minutes, how many times do they toll together? \*

1 point

- a. 8 times
- b. 19 times
- c. 21 times
- d. 30 times

22. John, Smith and Kate start at same time, same point and in same direction to run around a circular ground. John completes a round in 250 seconds, Smith in 300 seconds and Kate in 150 seconds. Find after what time will they meet again at the starting point? \*

1 point

- a. 30 min
- b. 25 min
- c. 20 min
- d. 15 min

23. 3 different pieces of iron are of varying length are given to a student which are 44cm, 22 cm,55 cm respectively.He has to form rods of maximum length such that no iron waste is left.Find the maximum length of such rod. \*

1 point

- 1. 28 cm
- 2. 14 cm
- 3. 42 cm
- 4. 63 cm
- 5. 11 cm

24. . Find the side of the largest square slab which can be paved on the floor of a room 5 meters 44cm long and 3 meters 74 cm broad. \*

1 point

- 1. 56 cm
- 2. 42 cm
- 3. 38 cm
- 4. 34 cm
- 5. 48 cm

25. Three number are in the ratio of 3 : 4 : 5 and their L.C.M. is 2400. Their H.C.F. is: \*

1 point

- A) 40
- B) 120
- C) 80
- D) 200

**Thankyou!!**

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