Max Marks: 60  Test ID: 55502  Time Allotted: 40 Mins

Instructions:
- Each question has four choices (A), (B), (C) and (D) out of which ONLY ONE is correct.
- Each question carries 2 Marks. There is no negative marking.

1. Which is a meaningful Roman numeral?
   A. VL
   B. IVC
   C. XAC
   D. LIL

2. The difference of 5671 and the number obtained on reversing its digit is
   A. 7436
   B. 3906
   C. 4906
   D. 3916

3. Each digit 1, 2, 3, 4, 5, 6, 7, 8 and 9 is represented by a different letter A, B, C, D, E, F, G, H and I but not necessarily in that order. Further each of A+B+C, C+D+E, E+F+G and G+H+I is equal to 13. What is the sum of C, E and G?
   A. 7
   B. 9
   C. 11
   D. cannot be determined

4. The smallest multiple (other than zero) that two or more numbers have in common. For e.g.: the multiples of 3 are 3, 6, 9, 12, 15... and the multiples of 5 are 5, 10, 15, 20... The smallest multiple that both 3 and 5 have in common is 15.
   A. Least common multiple
   B. Least common factor
   C. Largest common multiple
   D. Largest common factor
5. 6 friends go out to eat pizza they order 2 medium pizzas of AED 329 AED and AED 429 respectively. How much amount each must contribute to pay the bill if they share it equally. Round it off to one decimal place.
   A. AED 126.30
   B. AED 54.80
   C. AED 71.50
   D. AED 126.33

6. Mrs. Sen makes 2/3 of her garden into a vegetable garden. She plants tomatoes in ¼ of the vegetables garden. What fraction of the garden does she use to grow tomatoes?
   A. 1/6
   B. 1/3
   C. 1/2
   D. 2/3

7. Tom correctly remembers that he visited London before twelfth of June but after eighth of June. His sister correctly remembers that Tom visited London after tenth of June but before fourteenth of June. On which day of June did Tom visit London?
   A. Eleventh
   B. Twelfth
   C. Tenth
   D. Can’t be determined

8. If Abdul starts by facing the playground which is in the south direction and turns in anticlockwise direction to face the market in east direction, what angle do Abdul turn through?
   A. 90°
   B. 270°
   C. 180°
   D. 360°

9. Find the perimeter of the given figure.

   ![Diagram](image)
   A. 38 cm
   B. 40 cm
   C. 68 cm
   D. 52 cm
10. A beaker is \(\frac{5}{7}\) filled with water. Another 10 liters of water is needed to fill the beaker to its brim. What is the capacity of the beaker?
   
   A. 50 liters  
   B. 20 liters  
   C. 70 liters  
   D. 35 liters  

11. Martin likes to collect different types of stamps and paste it on a scrapbook of page size 7.5 cm by 6 cm. If all the stamps in a scrapbook are of same size as 2.5 cm by 1.5 cm, how many such stamps can be collected by placing them side by side in a scrapbook having 10 such pages?
   
   A. 100  
   B. 110  
   C. 125  
   D. 120  

12. Mr. Gredwick and his worker had to pack 140 cubical shape boxes to be delivered to a shop. They made three boxes having square box of sides 30 feet, 20 feet and 10 feet respectively and having equal height of 12 feet each. If all the boxes got completely packed without leaving any space, then what would be the volume (in cubic feet) of each of the small box?
   
   A. 120  
   B. 140  
   C. 160  
   D. 180  

13. The local pizza place cuts their pizzas into sixthths, so that each slice is \(\frac{1}{6}\) of the pizza. If 8 people share the four pizzas, then the number of slices does each person get will be
   
   A. 4  
   B. 6  
   C. 8  
   D. 3  

14. In a city, age of 34768 people is below 20, age of 57498 people is between 20 and 30 and age of remaining people is above 30. If the total population of the village is 100000, then the number of people who are above 30 is
   
   A. 92266  
   B. 42502  
   C. 65232  
   D. 7734
15. A college student’s union held a raffle to raise money for a musical concert. Amaira drew ticket number 392704, Samantha drew ticket number 396491, Barbara drew ticket number 392677 and Celia drew ticket number 396449. Whose ticket had the largest number?
   A. Celia
   B. Samantha
   C. Amaira
   D. Barbara

16. If \( \frac{5}{8} = \frac{x}{40} = \frac{y}{56} \), then the values of \( x \) and \( y \) are respectively.
   A. \( x = 25, y = 35 \)
   B. \( x = 35, y = 25 \)
   C. \( x = 15, y = 35 \)
   D. \( x = 35, y = 15 \)

17. A sack of rice weighs 12 kg 500 g. If one-quarter of the rice is sold, what weight is left in the sack?
   A. 15 kg 625 g
   B. 9 kg 375 g
   C. 3 kg 125 g
   D. None of these

18. A hall 20 m long and 15 m broad is surrounded by a verandah of uniform width 2.5 m. What is the area of the floor of the verandah?
   A. 500 sq. m
   B. 3700 sq. m
   C. 800 sq. m
   D. 200 sq. m

19. If \( V_1 \), the volume of a cube is 27 cu.cm and \( V_2 \), the volume of the cuboid of size 3 cm by 2 cm by 4 cm. Then, the relation between \( V_1 \) and \( V_2 \) is given by ________.
   A. \( V_1 = 3V_2 \)
   B. \( 3V_1 = V_2 \)
   C. \( 8V_1 = 9V_2 \)
   D. \( 9V_1 = 8V_2 \)

20. Find the missing character.

   A. 20
   B. 60
   C. 12
   D. 96
21. The largest 2-digit number in roman numerals is?
   A. IXIX
   B. XCIX
   C. LXLIX
   D. None of these

22. In the month of July, August, September, and October, the total sale of a petrol depot was 3,56,085 liters. How much petrol does it sell every day?
   A. 2,705 l
   B. 2,735 l
   C. 2,815 l
   D. 2,895 l

23. Joe had $1 \frac{1}{2}$ bags of candies. The full bag had 24 packets of candies in it with 12 candies in each packet. Which expression gives the total number of candies Joe had?
   A. $1 \frac{1}{2} + 24 \times 12$
   B. $1 \frac{1}{2} \times 24 + 12$
   C. $1 \frac{1}{2} \times 24 \times 12$
   D. $1 \frac{1}{2} \times (24 + 12)$

24. The mass of a container is 400 g when it is empty. When it is totally filled with sand, its mass is 2 kg. What is its mass when it is half filled with sand?
   A. 1 kg
   B. 1 kg 100 g
   C. 1 kg 200 g
   D. 1 kg 400 g

25. Sam wants to cover a room 4 m 50 cm wide and 8 m long using square tiles. If each square tile is of side 60 cm, then find the number of square tiles required to cover the floor.
   A. 80
   B. 96
   C. 100
   D. 144

26. Which of the following words cannot be formed from the given word?
   MATHEMATICS
   A. TIME
   B. MAT
   C. MENTAL
   D. TAME
27. The ratio of water and milk in a 30 litre mixture is 7 : 3 find the quantity of water to be added to the mixture in order to make this ratio 6 : 1.
   A. 30 litre
   B. 32 litre
   C. 33 litre
   D. 35 litre

28. Three numbers are in the ratio of 3:4:5 and their L.C.M is 2400. Their H.C.F is:
   A. 40
   B. 80
   C. 120
   D. 200

29. Which of the following choices lists these decimals in order from least to greatest:
   3.45, 3.0459, 3.5, 3.4059?
   A. 3.0459, 3.4059, 3.45, 3.5
   B. 3.4059, 3.5, 3.0459, 3.45
   C. 3.5, 3.45, 3.4059, 3.0459
   D. None of the above.

30. Replace * by the correct digit in
   6767678
   + 154*9326
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   22207004
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   A. 2
   B. 3
   C. 4
   D. 1