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MATH TALENT HUNT EXAMINATION – 2020
Organised by : The Pi (π) Group of Mathematics (TPGM)

Class – VI
F.M – 100

Time – 2 Hour

Instructions:

1. There are 50 questions of marks 2 each.
2. Put tick mark on the correct alternative against each question in your answer sheet.
3. There is no negative marking.

1. The sum of the place values of all the digits in 7005 is –
(a) 12 (b) 75 ☒ (c) 7005 (d) 12000
2. If we write numbers from 1 to 100, the number of times the digit 5 has been written is –
(a) 11 (b) 15 (c) 19 ☒ (d) 20
3. The number of whole numbers between 22 and 54 is –
(a) 30 ☒ (b) 31 (c) 32 (d) 42
4. Which of the following is not equal to zero?
(a) 0×5 (b) $0 \div 5$ (c) $(10-10) \div 5$ ☒ (d) $(5-0) \div 5$
5. If p is a whole number such that $p+p=p$, then p is equal to –
☒ (a) 0 (b) 1 (c) 2 (d) None of these.
6. $(-12)+17-(-10)$ is equal to –
(a) -5 (b) 5 ☒ (c) 15 (d) -15.
7. The smallest integer lying between -10 and -15 is –
(a) -10 (b) -11 ☒ (c) -14 (d) -15.
8. Which of the following numbers is divisible by 8?
(a) 503786 (b) 505268 (c) 305678 ☒ (d) 703568
9. The number of even numbers between 66 and 88 is –
☒ (a) 10 (b) 11 (c) 12 (d) 13
10. The digit by which '*' should be replaced in $7254*98$ so that the number formed is divisible by 22 is –
(a) 0 (b) 1 (c) 2 ☒ (d) 6
11. The LCM of 30 and 45 is –
(a) 15 (b) 30 (c) 45 ☒ (d) 90.
12. If $S = \{ x \mid x \text{ is a letter in the word COOCHBEHAR} \}$, then the cardinal number of S is –
(a) 9 (b) 8 (c) 7 ☒ (d) 6

13. Which of the following fractions is the greatest?

- (a) $\frac{5}{6}$ (b) $\frac{5}{7}$ (c) $\frac{5}{8}$ (d) $\frac{5}{9}$

14. Manik eats $\frac{3}{7}$ of a pizza. The fraction of the pizza left is -

- (a) $\frac{5}{7}$ (b) $\frac{4}{7}$ (c) $\frac{3}{7}$ (d) $\frac{2}{7}$

15. The fraction which is not equal to $\frac{4}{5}$ is -

- (a) $\frac{40}{50}$ (b) $\frac{9}{15}$ (c) $\frac{12}{15}$ (d) $\frac{32}{40}$

16. $5\frac{3}{1000}$ is equal to -

- (a) 5.03 (b) 5.3 (c) 5.003 (d) 5.0003.

17. The value of $7 + \frac{5}{10} + \frac{3}{1000}$ is -

- (a) 7.53 (b) 7.503 (c) 7.053 (d) 0.753

18. The decimal number not equal to 5.7 is -

- (a) 5.70 (b) 5.07 (c) 5.700 (d) 5.7000.

19. The ratio of 20 minutes to 1 hour is -

- (a) 20 : 1 (b) 1 : 3 (c) 1 : 4 (d) 2 : 5.

20. If a, b, c and d are in proportion then -

- (a) $ab=cd$ (b) $ad=bc$ (c) $ac=bd$ (d) None of these.

21. 0.025 when expressed as percentage is -

- (a) 250% (b) 25% (c) 4% (d) 2.5%.

22. $x = 3$ is the solution of the equation -

- (a) $x+7=4$ (b) $x+10=7$ (c) $x+7=10$ (d) $x+3=7$.

23. If the length of a rectangle is 3 times its breadth and the breadth is x units, then its perimeter is -

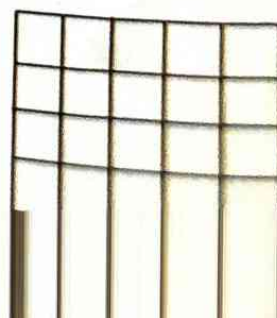
- (a) 4x unit (b) 6x unit (c) 8x unit (d) 10x unit.

24. If Kamal earns Rs.x per day and spend Rs.y per day, then his savings for the month of March is -

- (a) Rs.(13x-y) (b) Rs.31(x-y) (c) Rs.31(x+y) (d) Rs.31(y-X).

25. In the adjoining figure, find the total number of squares.

- (a) 25 (b) 35 (c) 45 (d) 55



26. In a polygon with 8 sides, the number of diagonals is –

- (a) 8 ☒ (b) 18 (c) 28 (d) 38.

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27. Which of the following statement is false?

- (a) A triangle has three sides (b) A triangle has three angles ☒ (c) A triangle has three diagonals (d) A triangle has three vertices.

28. A reflex angle measures –

- (a) more than 90° but less than 180° ☒ (b) more than 180° but less than 360° (c) more than 180° but less than 270° (d) none of these

29. A quadrilateral whose each angle is a right angle is a

- (a) trapezium (b) parallelogram (c) rhombus ☒ (d) rectangle

30. The number of lines of symmetry of a circle is –

- (a) 4 (b) 8 (c) 16 ☒ (d) unlimited.

31. Which of the following angles can not be constructed using ruler and compass?

- (a) 15° (b) 45° (c) 75° ☒ (d) 85°

32. The number of lines of symmetry in a protractor is –

- (a) 0 ☒ (b) 1 (c) 2 (d) more than 2

33. The number of line of symmetry in a picture of a divider is –

- (a) 0 ☒ (b) 1 (c) 2 (d) 4

34. If the perimeter of a square is 50 cm, then its side is –

- (a) 200 cm (b) 150cm (c) 25 cm ☒ (d) 12.5 cm

35. If the length and breadth of a rectangle are doubled then its area

- (a) remain same (b) becomes half (c) doubles ☒ (d) becomes four times

36. If the area of a square is numerically equals to the perimeter, then the length of each side is –

- ☒ (a) 4 units (b) 3 units (c) 2 units (d) 1 unit

37. The median of the following data 15,22,8,16,0,10,16 is –

- (a) 16 ☒ (b) 15 (c) 22 (d) 10

38. The square root of 576 is –

- (a) 14 ☒ (b) 24 (c) 34 (d) 44

39. Rambabau was transferred to Mumbai on 7th October, 1998. He came back to Kolkata on 21st January 2012. Rambabu lived in Mumbai for

- (a) 13 years 6 months 14 days (b) 13 years 5 months 14 days (c) 13 years 4 months 14 days ☒ (d) 14 years 3 months 14 days

40. If Rs.324 is divided between A and B in the ratio 11 : 7, then A will get –

- (a) Rs.188 (b) Rs.198 (c) Rs.208 (d) Rs.218

41. The Roman number of 100 is –

- (a) X (b) L (c) D (d) C

42. The value of $(2\frac{3}{5} - 1\frac{7}{10}) - (1 - \frac{1}{10})$ is

- (a) 0 (b) 1 (c) 2 (d) 3

43. Simplify value of $3 - \frac{11}{5 + \frac{1}{5 - \frac{1}{1 + \frac{1}{4}}}}$ is

- (a) $\frac{3}{10}$ (b) $\frac{5}{10}$ (c) $\frac{7}{10}$ (d) $\frac{9}{10}$

44. A man gave $\frac{2}{15}$ of his money to Ram and $\frac{3}{10}$ to Jadu and then he had Rs.34 left. He had at first –

- (a) Rs.40 (b) Rs.50 (c) Rs.60 (d) Rs.70

45. If we convert $\frac{17}{250}$ into decimals, then the result is –

- (a) 0.68 (b) 0.068 (c) 0.0068 (d) 6.8

46. LCM of $\frac{3}{4}, \frac{8}{9}, \frac{9}{10}$ is –

- (a) 52 (b) 62 (c) 72 (d) 82

47. $(-5)^2 \times (-1)^3$ is equal to –

- (a) 25 (b) -25 (c) 10 (d) -10

48. Which of the following letters does not have the vertical line of symmetry?

- (a) A (b) H (c) M (d) E

49. A rhombus is symmetrical about

- (a) each of its two diagonals (b) each of its two lines joining the mid points of opposite sides (c) each of the perpendicular bisector of its sides (d) none of these

50. The perimeter of this figure is

- (a) 370 m (b) 375 m (c) 380 m (d) 385 m

