Tsi8M

Tenkasi District Common Annual Examination - 2025



16-04-25

Standard 8

Time: 2.30 Hours

Marks: 100

9x1 = 9

Choose the correct answer.

1) $\sqrt{48}$ is approximately equal to

- c) 7
- d) 8

2) $\left(\frac{3}{4} - \frac{5}{8}\right) + \frac{1}{2} = \dots$

3) If the area of a rectangle is $48 \text{m}^2 \text{n}^3$ and Whose length is 8mn^2 then its breadth is

- b) 8m²n
- c) 7m²n²
- d) $6m^2n^2$

4) If $x^2-y^2=16$ and (x+y)=8 then (x-y) is a) 8

- b) 3
- c) 2

5) What is the marked Price of a hat which is bought for ₹210 at 16% discount? a) ₹243 c) ₹230

b) ₹176

d) ₹250

Two similar triangles will always have angles.

- a) acute
- b) obtuse c) right
- d) matching

7) The hypotenuse of a tright angled triangle of sides 12cm and 16cm is b) 20cm c) 24cm d) 21cm 8) The graphical representation of grouped data is

- a) bar graph b) pictograph
- c) piechart
- d) histogram

9) How many outcomes can you get when you toss three coins once? b) 8 c) 3

II. Fill in the blanks:

5x1=5

- 12) The value of P in the equation $\frac{2P}{3} = 10$ is
- 13) The medians of a triangle cross each other at

14) The range of the data 200, 15, 20, 103, 3, 196 is

III. Say True or False:

5x1=5

- 15) The square root of 225 is 15
- 16) In a right angled triangle, the hypoten use is the greatest side

17) Inclusive series is a continuous series

18) If the present population of a city is P and it increases at the rate of r% p.a,

Then the population n years ago would be $P\left(1+\frac{r}{100}\right)$

19) $8x^3y \div 4x^2 = 2xy$

IV. Match the following:

5x1=5

- 20) Circumference of a semicircle
- 21) $4y^2 \times (-3y)$

- 35
- 22) Area of trapezium - 895
- 23) The upper limit of the class interval (25 35) is $-\frac{1}{2}h(a+b)$ sq.u§
- 24) Eleventh Fibonacci number

$$-(\pi+2)r$$

V. Answer any 10 questions:

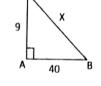
10x2 = 20

- 25) Subtract : $\frac{-8}{44}$ from $\frac{-17}{11}$
- 26) Find x so that $(-7)^{x+2} \times (-7)^5 = (-7)^{10}$
- 27) A spinner of radius 7.5cm is divided into 6 equal sectors. Find the area of each of the sectors

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- 28) Find the product of $2x^2y^2$, $3y^2z$ and $-z^2x^3$
- 29) Factorise: $4x^2y + 8xy$
- 30) Akila scored 80% of marks in an examination. If her score was 576 marks, then find the maximum marks of the exmination.
- 31) A and B together can do a piece of work in 16days and A alone can do it in 48 days. How long will B take to complete the work?
- 32) Find the value of x in the following triangle?
- 33) Convert the given discontinuous series into a continuous series

Class		0-5	6-11	12-17	18-23	24-29	
Frequen	cy (f)	7	10	9	5	12	



- 34) Shanthi has 5 Chudithar sets and 4 Frocks. In how many possible ways, can she wear either a Chudithar or a Frock?
 - 35) Using repeated substraction method. Find the HCF of the numbers 36 and 80
 - 36) Solve: 2x+5=9

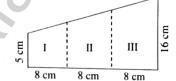
VI. Answer any 8 questions:

8x5 = 40

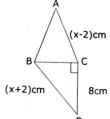
37) Write the following rational numbers in ascending and descending order

5 '-10' 20' -30' 15
38) Simplify:
$$\left[\frac{11}{8} \times \left(\frac{-6}{33}\right)\right] + \left[\frac{1}{3} + \left(\frac{3}{5} + \frac{9}{20}\right)\right] - \left[\frac{4}{7} \times \frac{-7}{33}\right]$$

- 39) A 3-fold invitation card is given with measures as in the figure. Find its area



- 40) Find the value of (103)3
- 41) Factorise $x^2+8x+15$
- 42) The bacteria in a culture grows by 5% in the first hour, decreases by 8% in the second hour and again increases by 10% in the third hour. Find the count of the bacteria at the end of 3 hours, if its initial count was 10000.



- 43) ABC is equilateral and CD of the right angled BCD is 8cm. Find the side of the equilateral \triangle ABC and also BD.
- 44) Draw a suitable pie chart for the following data relating to the cost of construction of a house

Particulars	Bricks	Steel	Cement	Timber	Labour	others	1
Expenses	10%	15%	25%	10%	20%	20%	

Also, find how much was spent on labour if ₹55000 was spent for cement.

45) In a study of dental Problem, the following data were obtained

the following data were obtained								
Ages 0-10	10-20	20-30	30-40	40-50	50-60	60-70	70-80	
No. of patients 5	.13	25	14	30	35	43	50	

Represent the above data by a frequency polygon. SIVAKU MAR M **46)** Frame Additive cipher table (key = 4)

VII. Answer any two questions:

Soi Ram mator HSS

Vallam 627808 2x8=16 7) Construct a quadrilateral MATH with MA = 4cm, AT = 3.6cm, TH = 4.5cm, MH = 5cm and $\angle A = 85^{\circ}$. Also find its area

(OR)

Construct a parallelogram BEAR with BE = 7cm, BA = 7.5 and \angle BEA = 80° . Also find its area

48) Draw straight lines by joining the points A(2, 5), B(-5, -2), M(-5, 4) N(1, -2) also find the point of intersection.

(OR)

Draw the graph of y = -3x