V8M

Virudhunagar District

Common Second Mid Term Test - 2023



d) $(p-q)^3$

b) $\frac{1}{2} \times d_1 \times d_2$ sq.units

d) $\frac{1}{2} \times h(a+b)$ sq.units

Marks: 50

5×1=5

Standard 8

Time: 1.30 Hrs.	MATHS	
I. Choose the bes	st answer:	
1) $(p+q)(p^2-pq+q^2)$ is equal to		
a) p ³ +q ³	b) (p+q) ³ c) p ³	³ -q ³
2) 5-11	2	

- 2) Factors of 4-m² are

 a) (2+m) (2+m)
 b) (2-m) (2-m)

 c) (2+m) (2-m)
 d) (4+m) (4-m)
- 3) If 5 persons can do 5 jobs in 5 days, then 50 persons can do 50 jobs in _____ days.
 a) 5
 b) 7

a) 5b) 7c) 9d) 114) Two numbers are said to be co-prime numbers if their H.C.F isa) 2b) 3c) 0d) 1

5) Area of Rhombus = _____

a) bh sq.units

c) $\frac{1}{2}$ (d₁+d₂) sq.units

II. Fill in the blanks:

- 6) The value of m in the equation $8\frac{1}{12}$ = 56 is _
- 7) A can finish a job in 3 days whereas B finishes it in 6 days. The time taken to complete the job working together is _____ days.
- 8) Common prime factors of 30 and 250 are _____.
- 9) If x²-y² = 16 and x+y = 8 then (x-y) is _____.

III. True or False:

- 10) Linear equation in one variable has only one variable with power 2.
- 11) "Sum of a number and two times that number is 48" can be written as y+2y = 48.
- 12) The largest number of three consecutive numbers is x+1, then the smallest number is x-1.
- 13) In parallelogram opposite sides always equal and parallel.

IV. Answer any three:

- 14) Expand : $(3m+5)^2$
- 15) Factorise : $x^2 + 8x + 15$
- 16) A cement factory makes 7000 cement bags in 12 days with the help of 36 machines. How many bags can be made in 18 days using 24 machines?
- 17) Using repeated division method find the H.C.F of 455 and 26.
- 18) Using repeated subtraction method, find the H.C.F of 144 and 120.

4~1-4

 $4 \times 1 = 4$

3×2=6

4×1=4

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V. Answer any three:

- ii) Find x : -3(4x+9) = 21
- 20) A total of 90 currency notes, consisting only of ₹ 5 and ₹ 10 denominations amount to ₹ 500. Find the number of notes in each denomination.
- 21) X, Y and Z can do a piece of job in 4, 6 and 10 days respectively. If X, Y and Z work together to complete, then find their separate shares if they will be paid ₹ 31,000 for completing the job.
- 22) If 6 container lorries can transport 135 tonnes of goods in 5 days, how many more lorries are required to transport 180 tonnes of goods in 4 days.
- 23) Using repeated division method find H.C.F of 184, 230 and 276.

VI. Answer the following:

2×8=16

- 24) a) Construct a parallelogram BIRD with BI = 6.5 cm, IR = 5 cm and \angle BIR = 70°. Also find its area. **(OR)**
 - b) Construct a parallelogram GAIN. GA = 7.5 cm, GI = 9 cm and \angle GAI = 100°.
- 25) a) Construct a rhombus NEST with NS = 9 cm and ET = 8 cm also find its area.(OR)
 - b) Construct a rhombus FACE, FA = 6 cm and FC = 8 cm.