

V8M

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V. Answer any 5 questions:**5×2=10**

- 18) Factorise: $49x^2 - 64y^2$
- 19) Find the volume of the cube whose side is $(x+1)$ cm.
- 20) A and B together can do a piece of work in 16 days and A alone can do it in 48 days. How long will B take to complete the work?
- 21) 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?
- 22) Solve: $2x+5 = 9$
- 23) One number is seven times another. If their difference is 18, find the numbers.
- 24) Factorise: m^2+m-7^2

VI. Answer ANY 3 questions:**3×5=15**

- 25) Expand: $(x+3)(x+5)(x+2)$
- 26) If a train runs at 60 km/hr it reaches its destination late by 15 minutes. But if it runs at 85 kmph it is late by only 4 minutes. Find the distance covered by the train.
- 27) 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.
- 28) 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?
- 29) Factorise: $64x^3+144x^2+108x+27$ using $(a+b)^3$ identity.

VII. Answer any one of the following:**1×8=8**

- 30) a) Construct a parallelogram BIRD with $BI = 6.5$ cm, $IR = 5$ cm and $\angle BIR = 70^\circ$. Also find its area. **(OR)**
- b) Construct a parallelogram CAMP, $CA = 6$ cm, $AP = 8$ cm and $CP = 5.5$ cm. Also find its area.
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