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FORMATIVE ASSESSMENT-IV (2023-24)

MATHEMATICS Model Paper

Class: VIII Max. Marks: 35 Time: 60 Min.

I. Solve the following problems.

 $2 \times 10 = 20$

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<u>35</u>

- 1. Find the common factor of $3x^2$ and $9x^3$.
- 2. Total surface area of cylinder = $2\pi r$ (h + r). (True/False)?
- 3. Factorize: a²+ab.
- 4. Which are Inverse proportion in the following variables

- A) Time and Interest
- B) Cost and length of cloth
- C) Distance and time for a constant speed
- D) Number of hours and number of workers
- 5. If the number of articles purchased increases and the total cost also increases, is this an example of direct or inverse proportion?
- 6. If two quantities increase or decrease together in the same ratio, what type of proportion do they follow?
- 7. Factorize: 2x+4.
- 8. What is the factorized form of a^2-b^2 ?
- 9. The cost of 5 pens is ₹40. Find the cost of 8 pens, assuming direct proportion.
- 10. Factorize: x^2-9 .

II. Solve the following problems.

 $2 \times 3 = 6$

- 11.A machine in a soft drink factory fills 840 bottles in six hours. How many bottles will it fill in five hours?
- 12. If 8 workers can complete a task in 6 days, how many days will 4 workers take to complete the same task.
- 13. Find the factors of $x^2-2x-35$.

III. Solve the following problem.

 $1 \times 4 = 4$

14.A train running at a uniform speed covers a distance of 240 km in 4 hours. How long will it take to cover 360 km at the same speed? Also, find the speed of the train.

IV. Solve the following problem.

 $1 \times 5 = 5$

15. Factorize: $x^3+6x^2+11x+6$ using the factor theorem