Dr BR Ambedkar Gurukulam Kopperla

STD 8 Maths							Roll No. :	

Student Name :							Class :	

Question	1	2	3	4	Marks Obtained	Total Marks	Signature of Examiner :
Marks Obtained						35	Date : 17-02-2025

Que 1 (A) Choose The Right Answer From The Given Options.[1 Marks Each]   [2]

1. When one quantity is increased, the other quantity is also increased. This proportion is called _____.

    ‾ ☐

    (A) Kally proportion.   (B) Direct proportion.

    (C) Inverse proportion.   (D) None of these.

2. The value of $0.645 \times 0.645 + 2 \times 0.645 \times 0.355 + 0.355 \times 0.355$ is: ‾ ☐

    (A) 1   (B) 0   (C) -1   (D) 2

Que 1 (B) a statement of Assertion (A) is followed by a statement of Reason (R).   [2] Choose the correct option.

3. **Directions:** In the following questions, the Assertions (A) and Reason(s) (R) have been put forward. Read both the statements carefully and choose the correct alternative from the following:

    Assertion (A): If 8 men can do a piece of work in 20 days, then in 8 days could 20 men do the same work **Reasons (R):** A direct proportion shows the direct the relation between two quantities. An inverse proportion shows inverse or indirect relation between two quantities

    a.   Both A and R are true and R is the correct explanation of A.

    b.   Both A and R are true but R is not the correct explanation of A.

    c.   A is true but R is false.

    d.   A is false but R is true.

4. **Directions:** In the following questions, the Assertions (A) and Reason(s) (R) have been put forward. Read both the statements carefully and choose the correct alternative from the following:

Assertion (A): The factorisation of ax + bx - ay - by is (x - y) (a + b) **Reasons (R):** The factorisation is defined as expressing or decomposing a number or an algebraic expression as a product of its prime factors or irreducible factors.

  a. Both A and R are true and R is the correct explanation of A.
  b. Both A and R are true but R is not the correct explanation of A.
  c. A is true but R is false.
  d. A is false but R is true.

Que 1 (C) Fill In The Blanks With Correct Alternative.[1 Marks Each] [2]

5. A car is travelling 48km in one hour. The distance travelled by the car in 12 minutes is _____.

6. In case of inverse proportion, $\frac{a_2}{\_} = \frac{b_2}{\_}$.

Que 1 (D) Answer The Following Questions In One Sentence.[1 Marks Each] [4]

7. Carry out the division: $28x^4 \div 56x$

8. Carry out the division: $-36y^3 \div 9y^2$

9. Factorise the expression: $-16z + 20z^3$

10. Factorise the expression: $-4a^2 + 4ab - 4ca$

Que 2 (A) Questions With Calculation.[2 Marks Each] [8]

11. A train is moving at a uniform speed of 75 km/hour. Find the time required to cover a distance of 250 km.

12. A farmer has enough food to feed 20 animals in his cattle for 6 days. How long would the food last if there were 10 more animals in his cattle ?

13. Divide the given polynomial by the given monomial: $(p^3q^6 - p^6q^3) \div p^3q^3$

14. Factorise: $x^4 - (y + z)^4$

Que 3 (A) Questions With Calculation.[3 Marks Each]   [12]

15. In a Television game show, the prize money of ₹1,00,000 is to be divided equally amongst the winners. Complete the table and find whether the prize money given to an individual winner is directly or inversely proportional to the number of winners:

No. of winners	1	2	4	5	8	10	20
Prize for each winner (in ₹)	1,00,000	50,000	…	…	…	…	…

16. A machine in a soft drink factory fills 840 bottles in six hours. How many bottles will it fill in five hours ?

17. Factorise: $10x^2 - 18x^3 + 14x^4$

18. Factorise: $x^4 - (x - z)^4$

Que 4 (A) Questions With Calculation.[5 Marks Each] [5]

19. A 5 m 60 cm high vertical pole casts a shadow 3 m 20 cm long. Find at the same time the height of a pole which casts a shadow 5m long.

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