



SHIKSHA CLASSES

Sub : Maths
Class : VIII (CBSE)

Question Paper
12: Factorisation

Total Marks : 30
Time : 1 Hour

Section A (Each 1 Mark)

Select the most appropriate answer from the given options (MCQ'S - Q.1 to Q.5)

- Q.1 : The common factor of $2a^2b^4c^2$, $8a^4b^3c^4$ and $6a^3b^3c^2$ is
a) $2a^2b^3c^2$ b) $6a^2b^3c^2$ c) $8a^2b^3c^2$ d) $a^4b^4c^4$
- Q.2 : The factorisation of $28a^3b^5 - 42a^5b^3$ is
a) $14a^3b^3(2b^2-3a^2)$ b) $14a^2b^3(2b^2-3a^2)$
c) $14a^3b^2(2b^2-3a^2)$ d) None of these.
- Q.3 : The factorisation of $ab - a - b + 1$ is
a) $(a - 1)(b - 1)$ b) $(a + 1)(b + 1)$ c) $(a - 1)(b + 1)$ d) $(a + 1)(b - 1)$
- Q.4 : The value of: $\frac{0.564 \times 0.564 - 0.436 \times 0.436}{0.564 - 0.436}$
a) 0 b) 1 c) -1 d) None of these.
- Q.5 : The factorisation of $6x^2 - 5x - 6$ is
a) $(2x - 3)(3x + 2)$ b) $(2x + 3)(3x + 2)$
c) $(2x - 3)(3x - 2)$ d) $(2x + 3)(3x - 2)$

Fill in the blank. (Q.6 to Q.7)

- Q.6 : The greatest common factor of $5a$ and $15b$ is _____
- Q.7 : The quotient obtained on dividing $(x^2 - 1)(x - 2)$ by $-(x - 2)$ is _____
- Write whether the following statements are True or False. (Q.8 to Q.9)
- Q.8 : The difference of the square of two consecutive natural numbers is equal to their sum.
- Q.9 : An identity is true for all values of its variables.

Section B (Each 2 Marks)

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

OR

Factorise : $x^2yz + xy^2z + xyz^2$

Q.11 : Find the common factors of the given terms

i) $14pq, 28p^2q^2$ ii) $0pq, 20qr, 30rp$

Section C (Each 3 Marks)

Q.12 : Factorise : $(l + m)^2 - 4lm$

OR

Factorise : $16x^5 - 144x^2$

Q.13 : Factorise : $p^2 + 6p + 8$

Q.14 : Factorise the expression and divide them as directed.

$(y^2 + 7y + 10) \div (y + 5)$

Section D (Each 4 Marks)

Q.15 : Factorise : $x^4 - (y + z)^4$

OR

Divide as directed : $20(y + 4)(y^2 + 5y + 3) \div 5(y + 4)$

Q.16 : Factorise the expression and divide them as directed.

$39y^3(50y^2 + 98) \div 26y^2(5y + 7)$

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