

INDIAN SCHOOL SOHAR
FORMATIVE ASSESSMENT III (2014 – 15)
MATHEMATICS

SET - 2

Class: VIII
Date: 16.11.2014

Marks: 20
Time: 40 Minutes

General Instructions:

- a. The question paper has 9 questions in all. All questions are compulsory.
b. Marks are indicated against each question.

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- | | | |
|----|--|---|
| 1. | 20% of an hour is | 1 |
| | A) 20 minutes B) 12 minutes C) 60 minutes D) 33 minutes | |
| 2. | If the marked price of an item is Rs 100 and a discount of 10% is allowed, then the sales price is | 1 |
| | A) Rs. 90 B) Rs. 100 C) Rs. 110 D) Rs. 10 | |
| 3. | What is the coefficient of z in $(-5x^2y^3z)$ | 1 |
| | A) -5 B) $5x^2y^3$ C) $5y^2$ D) $-5x^2y^3$ | |
| 4. | Kamala bought a second hand refrigerator for Rs 5,500, then spent Rs 1,500 on its repairs and sold it for Rs 8,400. Find her loss or gain percent. | 2 |
| 5. | Add the following: $5x - 3y^2 + 6xy$, $2y^2 - 13x + 2xy$, $15x - xy - 8y^2$ | 2 |
| 6. | Waheeda bought an air cooler for Rs 18,000 including VAT. If the rate of VAT is 10%, find the price of the air cooler before VAT was added. | 3 |

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SET - 1

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General Instructions:

- a. The question paper has 9 questions in all. All questions are compulsory.
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- | | | |
|----|---|---|
| 1. | 40% of an hour is | 1 |
| | A) 12 minutes B) 24 minutes C) 60 minutes D) 33 minutes | |
| 2. | If the marked price of an item is Rs 200 and a discount of 20% is allowed, then the sales price is | 1 |
| | A) Rs. 180 B) Rs. 160 C) Rs. 110 D) Rs. 20 | |
| 3. | What is the coefficient of y in $(-5x^2yz^3)$ | 1 |
| | A) -5 B) $5x^2z^3$ C) $5y^2$ D) $-5x^2z^3$ | |
| 4. | A retailer buys a cooler for Rs 12,000 and overhead expenses on it are Rs 400. If he sells the cooler for Rs 15,500, find his profit percent. | 2 |
| 5. | Add the following: $x^2 - 2xy + 8y^2$, $2y^2 - 3x^2 + 2xy$, $-x^2 - xy$ | 2 |
| 6. | Arjun invested Rs 50,000 at an interest rate of 10% per annum compounded annually. What amount would he get after $1\frac{1}{2}$ years? | 3 |

7. Deepak invested Rs 60,000 at an interest rate of 12% per annum compounded annually.
What amount would he get after $1\frac{1}{2}$ years? 3
8. i) Subtract $5m(2m - 4n + 5) - 6m(m - 3n + 2)$ from $4m(-m + n + 12)$
ii) Find the product of $3m, 7m^2, (-6m^4)$ 3
9. A VCR and TV were bought for Rs 16,000 each. The shopkeeper made a loss of 4% on the VCR and a profit of 8% on the TV. Find the gain or loss on the whole transaction. 4

7. A refrigerator is available for Rs 25,850 including VAT. If the rate of VAT is 10%, find the original cost of the item. 3
8. i) Subtract $3x(x + y + z) - 2y(x - y + z)$ from $4z(-x + y + z)$
ii) Find the product of $5a, 3a^2, 6a^4$ 3
9. A shopkeeper bought two LCD sets at Rs 21,600 each. He sold one at a profit of 8% and the other at a loss of 5%. Find the gain or loss on the whole transaction. 4
