AllCanMath

TEST PAPER 1 - CLASS 7
Class 07 - Mathematics

Time Allowed: 1 hour　　　　　　　　　　　　　　　　　　　　　　　　　　　**Maximum Marks: 30**

Section A

1. _____ ÷ (4) = –3　　　　　　　　　　　　　　　　　　　　　　　　　　　**[1]**

    a) -12　　　　　　　　　　　　　　　　　　b) 7

    c) -7　　　　　　　　　　　　　　　　　　 d) 12

2. The value of $5 \div (-1)$ does not lie between　　　　　　　　　　　　　**[1]**

    a) 0 and -10　　　　　　　　　　　　　　　b) -6 and 6

    c) -4 and -15　　　　　　　　　　　　　　　d) 0 and 10

3. $(-43) \times (-99) + 43$ is equal to　　　　　　　　　　　　　　　　　　**[1]**

    a) -4300　　　　　　　　　　　　　　　　　b) 4300

    c) -4214　　　　　　　　　　　　　　　　　d) 4257

4. An adult female dog is 6 years old and its baby dog is one and half year old. What part of age of adult female dog is the age of baby dog?　　**[1]**

    a) One-fifth　　　　　　　　　　　　　　　b) One-fourth

    c) One-sixth　　　　　　　　　　　　　　　d) One-seventh

5. Samantha paid ₹26.25 for three books that all cost the same amount. What was the cost per book?　　**[1]**

    a) ₹7　　　　　　　　　　　　　　　　　　　b) ₹5.5

    c) ₹8.75　　　　　　　　　　　　　　　　　d) ₹6.5

6. A vehicle covers a distance of 43.2 km in 2.4 litres of petrol. How much distance will it cover in one litre of petrol?　　**[1]**

    a) $21km$　　　　　　　　　　　　　　　　 b) $24km$

    c) $18km$　　　　　　　　　　　　　　　　 d) $20km$

7. The value of $(-1)^{450}$ is　　　　　　　　　　　　　　　　　　　　　　**[1]**

    a) 2　　　　　　　　　　　　　　　　　　　 b) -1

    c) 1　　　　　　　　　　　　　　　　　　　 d) 0

8. Which of the following is equal to 1?　　　　　　　　　　　　　　　　　**[1]**

    a) $(3^0 – 2^0) \times 4^0$　　　　　　　　　　　b) $(3^0 – 2^0) \times (3^0 + 2^0)$

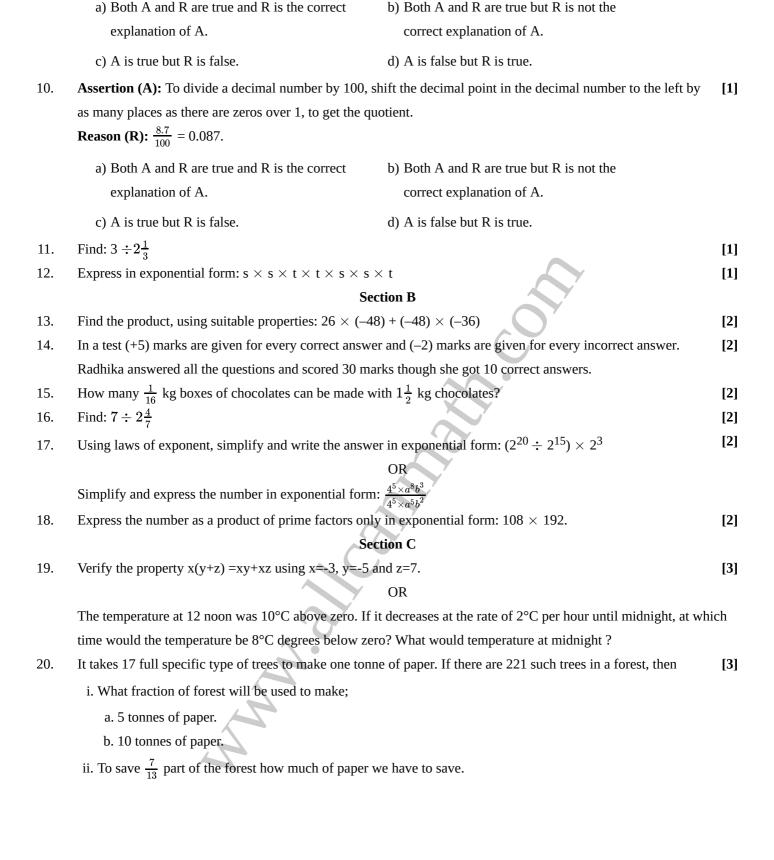   c) $2^0 + 3^0 + 4^0$　　　　　　　　　　　　　d) $2^0 \times 3^0 \times 4^0$

9. **Assertion (A):** $(-7) + (-9) = 16$.　　　　　　　　　　　　　　　　　**[1]**

    Reason (R): When the two integers have a negative sign, add the integers and assign the (-) sign to the sum.

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.

10. **Assertion (A):** To divide a decimal number by 100, shift the decimal point in the decimal number to the left by as many places as there are zeros over 1, to get the quotient. **[1]**

Reason (R): $\frac{8.7}{100} = 0.087$.

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.

11. Find: $3 \div 2\frac{1}{3}$ **[1]**

12. Express in exponential form: $s \times s \times t \times t \times s \times s \times t$ **[1]**

Section B

13. Find the product, using suitable properties: $26 \times (-48) + (-48) \times (-36)$ **[2]**

14. In a test (+5) marks are given for every correct answer and (–2) marks are given for every incorrect answer. Radhika answered all the questions and scored 30 marks though she got 10 correct answers. **[2]**

15. How many $\frac{1}{16}$ kg boxes of chocolates can be made with $1\frac{1}{2}$ kg chocolates? **[2]**

16. Find: $7 \div 2\frac{4}{7}$ **[2]**

17. Using laws of exponent, simplify and write the answer in exponential form: $(2^{20} \div 2^{15}) \times 2^3$ **[2]**

OR

Simplify and express the number in exponential form: $\frac{4^5 \times a^8 b^3}{4^5 \times a^5 b^2}$

18. Express the number as a product of prime factors only in exponential form: 108×192. **[2]**

Section C

19. Verify the property x(y+z) =xy+xz using x=-3, y=-5 and z=7. **[3]**

OR

The temperature at 12 noon was 10°C above zero. If it decreases at the rate of 2°C per hour until midnight, at which time would the temperature be 8°C degrees below zero? What would temperature at midnight ?

20. It takes 17 full specific type of trees to make one tonne of paper. If there are 221 such trees in a forest, then **[3]**

   i. What fraction of forest will be used to make;

   a. 5 tonnes of paper.

   b. 10 tonnes of paper.

   ii. To save $\frac{7}{13}$ part of the forest how much of paper we have to save.