

# GR 10 MATHS – EXAM MEMOS

## NATIONAL EXEMPLAR PAPER 1

1.1.1  $(m - 2n)(m^2 - 6mn - 5n^2)$

$$= m^3 - 6m^2n - mn^2 - 2m^2n + 12mn^2 + 2n^3$$

$$= m^3 - 8m^2n + 11mn^2 + 2n^3 \quad \blacktriangleleft$$

1.1.2  $\frac{x^3 + 1}{x^2 - x + 1} - \frac{4x^2 - 3x - 1}{4x + 1}$

$$= \frac{(x+1)(x^2 - x + 1)}{(x^2 - x + 1)} - \frac{(4x+1)(x-1)}{(4x+1)}$$

$$= (x+1) - (x-1)$$

$$= x+1 - x+1$$

$$= 2 \quad \blacktriangleleft$$

1.2.1  $6x^2 - 7x - 20$

$$= (2x - 5)(3x + 4) \quad \blacktriangleleft$$



1.2.2  $a^2 + a - 2ab - 2b$

$$= a(a+1) - 2b(a+1)$$

$$= (a+1)(a-2b) \quad \blacktriangleleft$$

1.3  $49 < 51 < 64 \quad \dots$  i.e. 51 lies between 49 and 64

$$\therefore 7 < \sqrt{51} < 8 \quad \dots$$
 taking the square root

$$\text{i.e. } \sqrt{51} \text{ lies between 7 and 8} \quad \blacktriangleleft$$

1.4 Let  $x = 0.\overline{245}$

$$\therefore x = 0,245\,245\dots \quad \dots \textcircled{1}$$

$$\times 1000) \therefore 1000x = 245,245\,245\dots \quad \dots \textcircled{2}$$

$$\textcircled{2} - \textcircled{1}: \therefore 999x = 245$$

$$\therefore x = \frac{245}{999}$$

$\dots$  i.e.  $x$  can be expressed as  $\frac{a}{b}$  where

$$a \in \mathbb{Z} \quad b \in \mathbb{Z}$$

$\therefore x$  is a rational number

2.1.1  $x^2 - 4x = 21$

$$\therefore x^2 - 4x - 21 = 0$$

$$\therefore (x+3)(x-7) = 0$$

$$\therefore x+3 = 0 \quad \text{or} \quad x-7 = 0$$

$$\therefore x = -3 \quad \blacktriangleleft \quad \therefore x = 7 \quad \blacktriangleleft$$

2.1.2  $3x^{\frac{5}{3}} = 96$

$$\div 3) \therefore x^{\frac{5}{3}} = 32$$

$$\therefore \left(x^{\frac{5}{3}}\right)^{\frac{3}{5}} = (32)^{\frac{3}{5}}$$

$$\therefore x = 2^4$$

$$\therefore x = 16 \quad \blacktriangleleft$$



2.1.3  $\frac{2\sqrt{x}}{3S} = R$

$$\times 3S) \therefore 2\sqrt{x} = 3SR$$

$$\div 2) \therefore \sqrt{x} = \frac{3SR}{2}$$

$$\text{Square:} \therefore x = \frac{9S^2R^2}{4} \quad \blacktriangleleft$$

2.2  $6q + 7p = 3 \quad \dots \textcircled{1}$

$$2q + p = 5 \quad \dots \textcircled{2}$$

$$\textcircled{2} \times 3: 6q + 3p = 15 \quad \dots \textcircled{3}$$

$$\textcircled{1} - \textcircled{3}: \therefore 4p = -12$$

$$\therefore p = -3 \quad \blacktriangleleft$$

$$\textcircled{2}: \therefore 2q - 3 = 5$$

$$\therefore 2q = 8$$

$$\therefore q = 4 \quad \blacktriangleleft$$



3.1.1 The 1<sup>st</sup> 3 terms:

$$3(3) + 1 : 2(3) : 3(3) - 7$$

$$\therefore 10 : 6 : 2 \quad \blacktriangleleft$$

3.1.2 The difference is -4

$$\therefore \text{In } T_n = an + b: a = -4$$

$$\& T_0 = b = 14 \quad \dots$$
 the term before the 1<sup>st</sup> term

$$\therefore T_n = -4n + 14 \quad \blacktriangleleft$$

## Question P2 Mathematics Grd10

**L Towne**



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In a digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Question P2 Mathematics Grd10**," compiled by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we will delve in to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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