



# TEST PAPER: MATHEMATICS

Time: 50 Minutes

Class: 8<sup>th</sup> I.C.S.E.

Max. Marks: 30 Marks

Date: 20<sup>th</sup> June, 2018

**Marking Scheme:** Four questions carry 10 marks each. Questions have 3 subparts each. Subparts (a) and (b) carry 3 marks each and subpart (c) carries 4 marks.

## Question 1:

- Divide  $2x^2 + 3x + 1$  by  $(x + 1)$
- From the sum of  $3x - 2y + 4z$  and  $3y - 2z$ , subtract  $x - y - z$ .
- Multiply the following binomials:
  - $(xy + yz)$  by  $(xy - yz)$
  - $(x + 9)$  by  $(y + 2)$

## Question 2:

- Multiply  $(5x^2 - 6x + 9)$  by  $(2x - 3)$
- Find the remainder and quotient when  $x^2 + 6x + 8$  is divided by  $(x + 4)$
- Expand  $(4x - 7y)^2$  using the identity.
  - Evaluate  $(999)^2$  using the identity

## Question 3:

- Divide first monomial by the second monomial:
  - $(63p^7q^8r^3) \div (9p^5q^5r^3)$
  - $45x^2z \div 3z$ .
- Subtract  $z^3 - z^2 + z - 1$  from  $z^3 - 2z^2 + 1$  and add your result to  $z^3 - 3z^2 + z - 1$ .
- Find the product of:
  - $6xy$  and  $-3x^2y^3$
  - $7ab^2$ ,  $-4a^2b$  and  $-5abc$