#### Extended Mathematics

Topic: Algebra -2

Year :May 2013 -May 2022

Paper - 2 Questions

#### Question 1

Rearrange  $y = \sqrt{8 + \frac{4}{y}}$  to make x the subject.

[4] Answer x = .....

#### Question 2

Write as a single fraction in its simplest form.

$$\frac{x+3}{x-3} = \frac{x-1}{x+1}$$

Answer ......[4]

#### Question 3

Solve  $3n + 23 \le n + 41$ .

[4] Answer ....

#### Question 4

The mass,  $m_r$  of a sphere varies directly with the cube of its radius,  $r_r = 160$  when r = 2.

Find m when r = 5.

#### Question 5:

Solve  $6x + 3 \le x \le 3x + 9$  for integer values of x.

Answer ......[4]

#### Question 6

y is inversely proportional to  $x^3$ . y = 5 when x = 2.

Find y when x = 4.

Answer y = [3]

# **Igcse Math Paper 2 20answers**

**DJ Losen** 

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<u>Modern Mathematics for Schools</u> Scottish Mathematics Group,1971 **Certificate Levels 2S and 2F (paper C)**,1967 Maths Review Level 2, Higher School

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web easy handling bolt numbering shall be done clockwise around the flange with the following sequence the table below shows the torque sequence for flanges with 4 to 32 bolts number of bolt studbolt tightening sequence to follow4 bolt flange1 3 2 48 bolt flange1 5 3 7 2 6 4 812 bolt flange1 7 4 10 2 8 5 11 3 9 6 1216 bolt

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web ensure the bolt lengths allow for a minimum of 2 3 threads protruding beyond the top of the nut when tightened bolts must be tightened according to the below sequence options assemble bolts hand tight maximum 30 of final tightening torque as per below cross pattern sequences

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web step 1 liberally lubricate all load bearing surfaces including threads and flat washers then install and finger tighten all fasteners number the bolts flange according to the bolt torque sequence step 2 set the torque wrench to 1 3 of the target torque value and tighten in an order bolts 1 2 3 4 until all have been tightened

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