



Pre-Leaving Certificate Applied Examination 2021

Mathematical Applications

(200 marks)

Time: 2 hours

Name:
School:
Address:
Class:
Teacher:

General Directions

1. Complete the box above with your details.
2. Write all answers in the boxes or spaces in this answerbook.
3. Show all necessary work in the space provided.
4. Calculators may be used.
5. Answers involving money should be given correct to the nearest cent, unless otherwise indicated.

ANSWER QUESTION ONE AND THREE OTHER QUESTIONS.

ALL QUESTIONS CARRY EQUAL MARKS.

<i>For the examiner only</i>			
		Question	Mark
		1	
		2	
<i>Cumulative check</i>		3	
Running total		4	
– Disallowed		5	
= Total		↔ Total	
Total mark x 1.15 (to max. of exam. total)			

- (b) (i) In an election the total poll was 63,545. The number of spoiled votes was 902. Calculate the valid poll.

	Answer:
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- (ii) In the election 6 seats have to be filled. Calculate the quota, using the given formula:

$$\text{quota} = \frac{\text{valid poll}}{\text{number of seats} + 1} + 1$$

	Answer:
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- (c) Tins of beans are cylindrical with a height of 11 cm and a diameter of 10 cm. Calculate the volume of a tin, correct to the nearest whole number.

$$V = \pi r^2 h$$



	Answer:
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