

SECTION I

Answer ALL the questions in this section.

All working must be clearly shown.

1. (a) Using a calculator, or otherwise, determine the exact value of
- (i) $2.3^2 + 4.1^2$
- (ii) $\frac{0.18}{0.6} - 0.003$
- (iii) $\frac{3\frac{1}{2} - 2\frac{3}{4}}{2\frac{1}{4}}$ (6 marks)
- (b) (i) Write your answer in Part (a) (i) correct to one significant figure.
- (ii) Write your answer in Part (a) (ii) in standard form. (2 marks)
- (c) (i) Mr Mitchell deposited \$40 000 in a bank and earned simple interest at 7% per annum for two years.
- Calculate the amount he will receive at the end of the two-year period.
- (ii) Mr Williams bought a plot of land for \$40 000. The value of the land appreciated by 7% each year.
- Calculate the value of the land after a period of two years. (4 marks)
- Total 12 marks
2. (a) Simplify:
- (i) $\frac{x^2 - 1}{x - 1}$
- (ii) $\frac{4ab^2 + 2a^2b}{ab}$ (4 marks)
- (b) Express as a single fraction:
- $\frac{3p}{2} + \frac{q}{p}$ (2 marks)
- (c) Solve for x , given
- $3x^2 - 7x + 2 = 0$ (4 marks)
- Total 18 marks

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