1.3 MATHEMATICS (121 and 122)

1.3.1 Mathematics Alt. A Paper 1 (121/1)

SECTION 1 (50 marks)

Answer all the questions in this section in the spaces provided.

Without using a calculator, evaluate;

$$\frac{2\frac{1}{5} + \frac{2}{3} \text{ of } 3\frac{3}{4} - 4\frac{1}{5}}{1\frac{1}{4} - 2\frac{2}{3} + 1\frac{1}{3} + 3\frac{3}{4}}$$

(3 marks)

- 2 The diagonal of a rectangular garden measures 11½ m while its width measures 6½m.
 Calculate the perimeter of the garden.
 (2-marks)
- 3 A motorist took 2 hours to travel from one town to another town and 1 hour 40 minutes to travel back. Calculate the percentage change in the speed of the motorist. (3 marks)
- 4 A square room is covered by a number of whole rectangular slabs of sides 60 cm by 42 cm. Calculate the least possible area of the room in square metres. (3 marks)
- 5 Given that $\sin (x + 60)^{\circ} = \cos (2x)^{\circ}$, find $\tan (x + 60)^{\circ}$.

(3 marks)

6 Simplify the expression:

$$\frac{4x-9x^3}{x^2-4x-4}$$

(3 marks)

- 7 The external length, width and height of an open rectangular container are 41 cm, 21 cm and 15.5 cm respectively. The thickness of the material making the container is 5 mm. If the container has 8 litres of water, calculate the internal height above the water level. (4 marks)
- .8 Factorise $2x^2y^2 5xy 12$

(2 marks)

- 9 Using a ruler and a pair of compases only:
 - (a) construct a parallelogram PQRS in which PQ = 6 cm, QR = 4 cm and angle SPQ = 75°;

(3 marks)

(b) determine the perpendicular distance between PQ and SR.

(I mark)

10 The masses of people during a clinic session were recorded as shown in the table below.

Mass (kg)	40-44	45-49	50-54	55-59	60-64	65-69	70-74
No. of people	1	2	12	10	2	2	1

Calculate the mean mass.

(3 marks)

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