## **Use of Calculator Questions**

Q1.

$$\frac{(4 \times 10^{9}) + (3.2 \times 10^{7})}{(1.6 \times 10^{-6})}$$

$$\frac{4 \times 10^9 + 3.2 \times 10^{-6}}{1.6 \times 10^{-6}}$$

Give your answer in standard form.

$$= 2.52 \times 10^{15}$$

.....

(Total for Question is 2 marks)

Q2.

Work out 
$$\frac{(2.6 \times 10^7) - (5 \times 10^6)}{2.8 \times 10^{-3}}$$

Give your answer in standard form.

$$= 7.5 \times 10^{9}$$

(Total for question = 2 marks)

(a) (i) Use your calculator to work out

$$\frac{\sqrt{46.2 - 17.5}}{2.39 \times 0.7}$$

$$\frac{\sqrt{(46.2-17.5)}}{(2.39\times0.7)}$$

Write down all the figures on your calculator display.

(ii) Give your answer to (i) correct to 3 significant figures.

(3)

(b) Work out  $(2.34 \times 10^5) \times (5 \times 10^4)$ 

Give your answer in standard form.

$$= 1.17 \times 10^{10}$$

(Total for Question is 5 marks)

Q4.

(a) Calculate the value of  $\frac{\sqrt{100 - 4.5^3}}{0.73}$ 

Give your answer correct to 3 decimal places.

$$\frac{\sqrt{(100-4.5^3)}}{0.73} = 4.08095$$

(b) Calculate the value of  $\frac{1.2 \times 10^3}{3 \times 10^5}$ Give your answer in standard form.

Possible Non-Calculator Question

$$= \frac{1.2}{3} \times 10^{-2}$$

$$= 0.4 \times 10^{-2}$$

$$= 4 \times 10^{-3}$$

$$= 4 \times 10^{-3} \tag{2}$$

(Total for question = 4 marks)

Q5.

$$= \frac{\sqrt{40.96}}{(7.1 - 2.48)}$$

Use your calculator to work out  $\frac{7.1 - 2.48}{7.1 - 2.48}$ 

Write down all the figures on your calculator display. You must give your answer as a decimal.

(Total for Question is 2 marks)

Q6.

Use a calculator to work out

$$\frac{\sqrt{20.4}}{6.2 \times 0.48} = \sqrt{20.4}$$
lay.

Write down all the figures on your calculator display. Give your answer as a decimal.

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(Total for Question is 2 marks)

## Q7.

$$x = 0.7$$

Work out the value of 
$$\frac{(x+1)^2}{2x}$$

Write down all the figures on your calculator display.

$$= \frac{\left(0.7+1\right)^2}{2\times0.7}$$

$$=\frac{1.7^2}{1.4}$$

## (Total for Question is 2 marks)

## Q8.

Calculate the value of 
$$\sqrt{\frac{\tan 60^{\circ} + 1}{\tan 60^{\circ} - 1}}$$

Write down all the figures on your calculator display. You must give your answer as a decimal.

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 $\frac{(4.5 + \sqrt{10})}{3.1}$ Q9. (a) Work out the value of Give your answer correct to 2 decimal places. (2)(b) Work out the value of (1) (Total for question = 3 marks) Q10.  $= \frac{(38.5 \times 14.2)}{(18.4 - 5.9)}$  $38.5 \times 14.2$ (a) Use your calculator to work out 18.4 - 5.9Write down all the figures on your calculator display. You must give your answer as a decimal. 43.736

(b) Write your answer to part (a) correct to 1 significant figure.

(2)

(1)

(a) Use your calculator to work out  $\frac{\sqrt{7056}}{0.35 \times 12.8}$ 

 $= \frac{\sqrt{7056}}{(0.35 \times 12.8)}$ 

Write down all the figures on your calculator display.

You must give your answer as a decimal.

- = 18.75
- (b) Write your answer to part (a) correct to 1 significant figure.

(Total for Question is 3 marks)

Q12.

Use your calculator to work out  $\frac{\sqrt{70.25}}{4.2 - 2.37}$ 

- (a) Write down all the figures on your calculator display. You must give your answer as a decimal.
- $= \frac{\sqrt{70.25}}{(4.2 2.37)}$
- = 4.580069567 (2)
- (b) Write your answer to part (a) correct to 4 decimal places.

(Total for question = 3 marks)