

## Physics Past Paper Questions:

### Questions

Q1.

Figure 1 shows a stationary wave on a vibrating string.

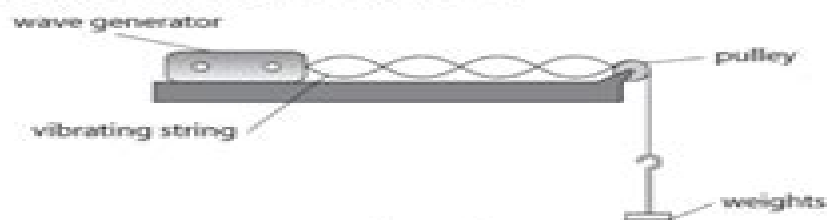


Figure 1

(i) Give the number of complete wavelengths shown on the string in Figure 1.

(1)

number of complete wavelengths = .....

(ii) Add a letter X to Figure 1 to show the position of **one** antinode.

(1)

(iii) Which process causes the stationary wave on the string in Figure 1?

(1)

- ☐ A compression
- ☐ B diffraction
- ☐ C regeneration
- ☐ D resonance

(iv) The string in Figure 1 is 1.0 m long.

The string has a mass of 2.1 g.

The tension in the string is 3.6 N.

Calculate the speed,  $v$ , of the wave on the string in Figure 1.

$$v = \sqrt{\frac{T}{\mu}}$$

Use the equation:  
Show your working.

(4)

# Jan 13 Past Papers Physics

**R Barnett**



## **Jan 13 Past Papers Physics:**

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