

THERMAL EXPANSION

KCSE QUICK REVISION

*Compilation of Possible Questions in Physics Likely to be examined in
KCSE.*

*A Special Analysis of Prediction Questions that may be Tested in KCSE from this
Topic in Form 1.*

PHYSICS

SERIES 1

For Marking Schemes

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MWALIMU CONSULTANCY

THERMAL EXPANSION

1. Figure 1 shows a beam balance made out of concrete and reinforced with steel
Use a diagram to explain the behaviour of the shape of the beam when heated up
2. (a) State **two** liquids which are used in thermometer.
(b) With a reason, state which of the two liquids in 3 (a) above is used to measure temperature in areas where temperatures are:
. (i) below -40°C (ii) 150°C
3. What do you understand by the statement '**lower fixed point**' on a temperature scale?
4. Name **two** adaptations that can be made to a mercury thermometer to make it more sensitive
5. **Figure 5** shows a bimetallic strip made of brass and iron. A marble is placed at end **A** of the bimetallic strip as shown below:-

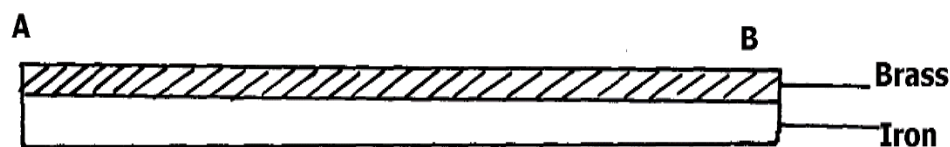


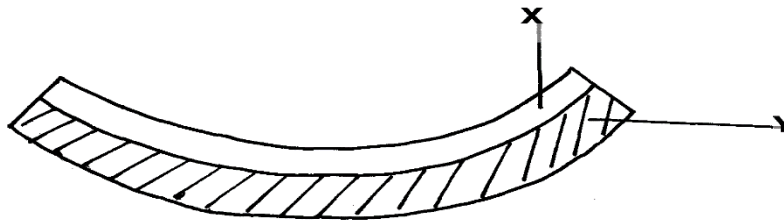
fig. 5

State and explain what will be observed when the bimetallic strip is strongly cooled

6. The figure below represents a bimetallic strip of metals **X** and **Y** at room temperature



The figure below shows its shape when dipped into crushed ice



Sketch a diagram in the space given below to show the shape when the strip is heated to a temperature above the room temperature

7. Give a reason why a concrete beam reinforced with steel does not crack when subjected to Changes in temperature.

For Marking Schemes/Answers

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