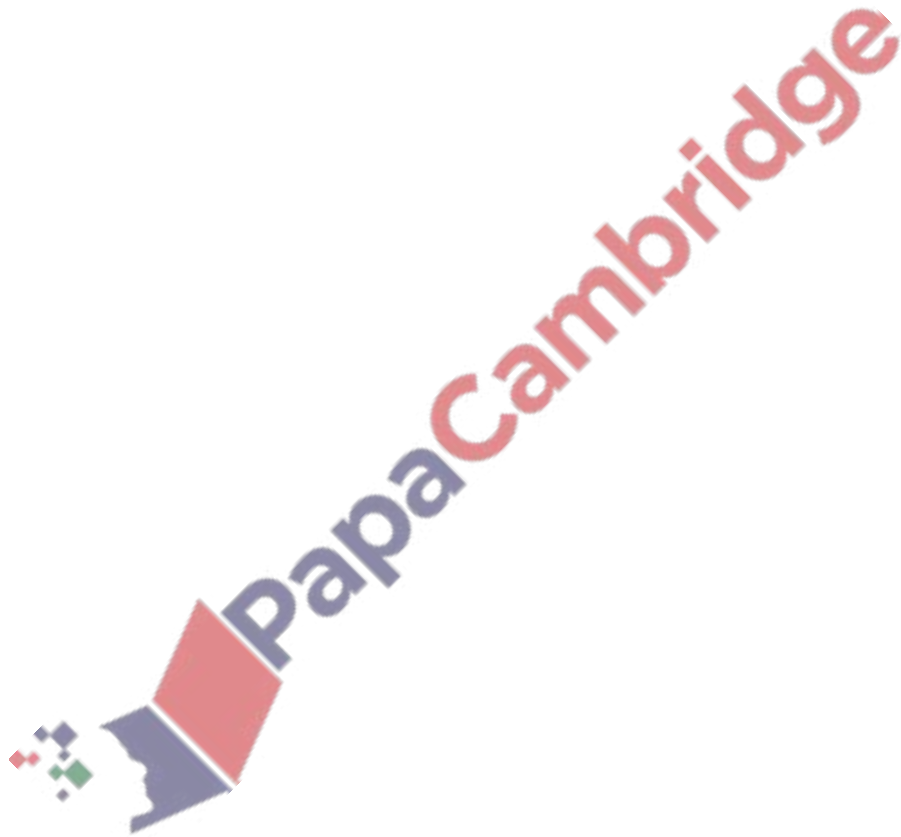


1. Nov/2022/Paper_11/No.9(a, c)

Jose has a greenhouse to grow his plants. He lives in a country which has a warm climate so the greenhouse does not need a heater but has microprocessor controlled windows and a temperature sensor.

(a) Describe how the sensor represents the temperature so the computer can read the data.

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..... [1]



4. June/2022/Paper_11/No.10

A farmer is concerned that the chemicals he is using to improve his crops are seeping into the local river. He has asked a local conservation group to investigate if this is the case. They will be using a computer and one set of sensors to monitor the level of pollution.

List examples of sensors the group will use and describe how they will be used with the computer to monitor the pollution level.

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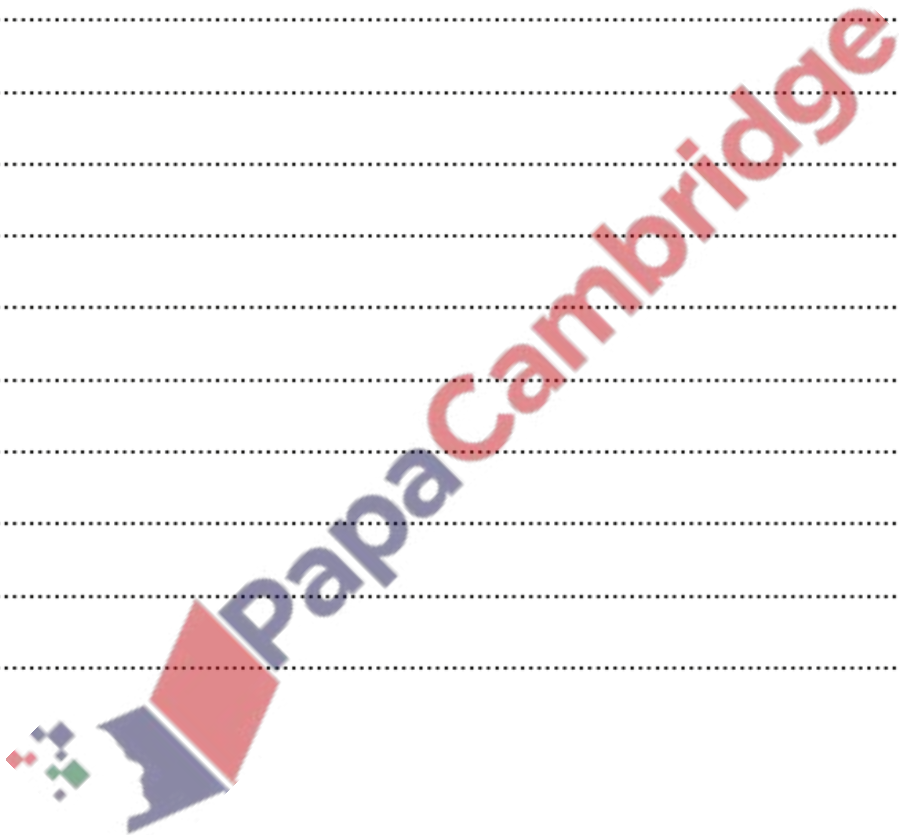
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[6]

5. June/2022/Paper_12/No.6

Sensors are used in monitoring systems to measure physical variables. It is important that sensors are calibrated before use.

- (a) Describe, in detail, these sensors and give an appropriate use for each. Each use must be different.

Humidity

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Sound

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[4]

- (b) Explain the importance of calibration.

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[2]

