

- (b) An empty bottle is corked when air inside is at 150°C and at standard atmospheric pressure. Calculate the temperature to which the air must be heated for the cork to blow out, if it is able to blow out when the pressure of the air exceeds 1.3 times the standard atmospheric pressure. State the assumptions you have made. (07 marks)
5. (a) Describe the composition of the ${}_{11}^{23}\text{Na}$ atom. (03 marks)
- (b) A radioactive nuclide emits an alpha particle and turns into another nuclide Y.
- Write a balanced equation to represent this nuclear change. (03 marks)
 - How would the nuclide X be affected if a beta particle was emitted instead of an alpha particle. (02 marks)
 - Compare the nature of and properties of an alpha particle with those of a beta particle (04 marks)
- (c) Describe briefly how X-rays are produced. (Diagram of the X-ray tube is not required). (04 marks)
6. (a) List three differences and three similarities between sound waves and light waves. (06 marks)
- (b)



The above diagram shows circular waves propagating towards a plane reflector.

- Draw a diagram to show how the waves will be reflected. (02 marks)
 - Calculate the frequency of the waves if their velocity and wavelength are 5.0 m s^{-1} and 0.5 m respectively. (03 marks)
- (c) A man standing midway between two cliffs makes a loud sound. He hears the first echo after 3 s. Calculate the distance between the two cliffs. (05 marks)
7. (a) Describe a simple method of measuring the refractive index of glass in form of a glass block. (06 marks)
- (b) (i) Explain, with the aid of a diagram, the term critical angle. (04 marks)
- (ii) Light of the same wavelength is incident at an angle, i , on a glass prism. The light is refracted and follows the path shown in the figure below.



Find the angle of incidence, i .

(06 marks)

8. (a) Give the advantages of alternating current over direct current in power transmission. (02 marks)
- (b) Describe with the aid of a diagram, the construction and action of a transformer. (05 marks)

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M Mark



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