

- 9 Fig. 9.1 shows a typical X-ray spectrum emitted when accelerated electrons hit a metal target.

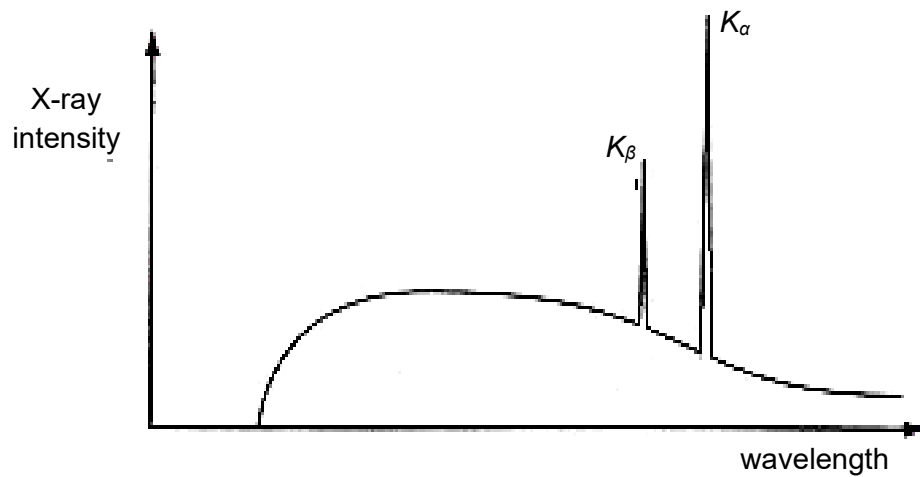


Fig. 9.1

- (a) Briefly explain the formation of the continuous spectrum.

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[2]

- (b) Explain the formation of the  $K_\beta$  line.

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[2]

- (c) Suggest why the  $K_\alpha$  line has a higher intensity than the  $K_\beta$  line.

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[1]

## Section B

Answer **one** question from this Section in the spaces provided.