

A-LEVEL PHYSICS

Practice Paper 1

Name:

Maximum marks: 85 Time Allowed: 2 hours

These questions are from past papers covering topics and skills based on the advance information to help you prepare for the exams this summer.

Answer all questions in the spaces provided.

You will need a Data and Formulae Booklet

Section A

- 1 (a) (i) Name two baryons.
- _____
- (2)
- (ii) State the quark structure of the pion π^+ .
- _____
- (1)
- (b) (i) The K^+ kaon is a strange particle. Give **one** characteristic of a strange particle that makes it different from a particle that is not strange.
- _____
- (1)
- (ii) One of the following equations represent a possible decay of the K^- kaon.
- $K^+ \rightarrow \pi^+ + \pi^0$
- $K^+ \rightarrow \mu^+ + \bar{\nu}_\mu$
- State, with a reason, which one of these decays is **not** possible.
- _____
- (2)
- (c) Another strange particle, X , decays in the following way:
- $X \rightarrow \pi^- + p$
- (i) State what interaction is involved in this decay.
- _____
- (1)

Exemplar Physics Paper 1

H Kauffman

A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the author's name.

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