A Level · OCR · Physics

4 mins 4 questions

Multiple Choice Questions

Fundamental Particles

Antimatter / Hadrons & Leptons / The Quark Model / Beta Minus & Beta Plus Decay / Quarks in Particle Decay Equations

Easy (1 question)	/1
Medium (3 questions)	/3
Total Marks	**/4**

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Easy Questions

1 Which column **A, B, C** or **D**, shows the correct sequence for the evolution of the Universe between the Big Bang and the formation of stars?

A	B	C	D
Universe starts to expand ↓ quarks and leptons form ↓ hadrons form ↓ nuclei form ↓ atoms form	Universe starts to expand ↓ hadrons form ↓ quarks and leptons form ↓ nuclei form ↓ atoms form	quarks and leptons form ↓ nuclei form ↓ Universe starts to expand ↓ atoms form ↓ hadrons form	quarks and leptons form ↓ hadrons form ↓ Universe starts to expand ↓ nuclei form ↓ atoms form

(1 mark)

Medium Questions

1 The table below shows the quark compositions of four particles **A**, **B**, **C** and **D**.

A	B	C	D
u u d	u d d	u d s	s s s

Which particle has a positive charge?

(1 mark)

2 Which statement is correct?

A. Hadrons are made up of protons and neutrons.

B. A positron and a proton are examples of leptons.

C. The positron and the electron have the same mass.

D. The weak nuclear force is responsible for alpha-decay.

(1 mark)

3 Which lepton is emitted in the decay of an up quark and is affected by a magnetic field?

A. neutrino

B. electron

C. positron

D. antineutrino

(1 mark)