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 HL Paper 2. HL Paper 2. This question is about the thermodynamics of a car engine and the dynamics of the car. A car engine consists of four cylinders. In each of the cylinders, a fuel-air mixture explodes to supply power at the appropriate moment in the cycle. The diagram models the variation of pressure P with volume V for one cycle of the gas, ABCDA, in one of the cylinders of the engine.

*HL Paper 2 - ibdocuments.com*

Subject Details: Physics HL Paper 2 Markscheme. Candidates are required to answer all questions. Maximum total = 90 marks. 1. Each row in the "Question" column relates to the smallest subpart of the question. 2. The maximum mark for each question subpart is indicated in the "Total" column. 3.

*November 2019 Physics Higher level Paper 2 - IB Documents*

HL Paper 2 Markscheme In beta minus (??) decay a d quark decays into a u quark, an electron and an electron antineutrino. a. Show that lepton number is conserved in this decay. [1] A nucleus of phosphorus-32 decays by beta minus (?) decay into a nucleus of sulfur-32 . The binding energy per nucleon of is 8.398 MeV and for it is 8.450 MeV.

*HL Paper 2 - The Online Physics Tutor*

HL Paper 2 Markscheme This question is in two parts. Part 1 is about gravitational force fields. Part 2 is about properties of a gas. Part 1 Gravitational force fields a. State Newton's universal law of gravitation. [2]

*HL Paper 2 - The Online Physics Tutor*

HL Paper 2 Markscheme Rhodium-106 ( ) decays into palladium-106 ( ) by beta minus (?) decay. The diagram shows some of the nuclear energy levels of rhodium-106 and palladium-106. The arrow represents the ? decay. -- b. Bohr modified the Rutherford model by introducing the condition  $mvr = n \cdot h$ . Outline the reason for this modification. [3]

*HL Paper 2 - The Online Physics Tutor*

HL Paper 2. HL Paper 2 Markscheme Examiners report. This question is about an ideal gas. a. Describe how the ideal gas constant R is defined. [2] b. Calculate the temperature of 0.100 mol of an ideal gas kept in a cylinder of volume  $1.40 \times 10^{-3} \text{ m}^3$  at a pressure of  $2.32 \times 10^5 \text{ Pa}$ . [1] The gas in (b) is kept in the cylinder by a freely moving piston. The gas is now heated at constant pressure until the volume occupied by the gas is  $3.60 \times 10^{-3} \text{ m}^3$ . The increase in internal energy of the gas is 760 J.

*HL Paper 2 - The Online Physics Tutor*

Subject Details: Physics HL Paper 2 Markscheme Mark Allocation Candidates are required to answer ALL questions in Section A [45 marks] and TWO questions in Section B [2x25 marks]. Maximum total = [95 marks]. 1. A markscheme often has more marking points than the total allows. This is intentional. 2.

*MARKSCHEME - Papers*

Subject Details: Physics HL Paper 2 Markscheme Mark Allocation Candidates are required to answer ALL questions in Section A [45 marks] and TWO questions in Section B [2 ~ 25 marks]. Maximum total = [95 marks]. 1. A markscheme often has more marking points than the total allows. This is intentional. 2.

*MARKSCHEME - IB Documents*

Subject Details: Physics HL Paper 2 Markscheme Mark Allocation Candidates are required to answer questions in Section A [45 marks] and TWO questions in Section B [2 x 25 marks]. Maximum total = [95 marks]. 1. A markscheme often has more marking points than the total allows. This is intentional. Do not award

*MARKSCHEME - IB Documents*

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*Markscheme - CAR AMPLIFIER*

HL Paper 2. HL Paper 2 Markscheme. This question is about nuclear reactions. A reaction that takes place in the core of a particular nuclear reactor is as shown. In the nuclear reactor, ?ssions take place every second. Each ?ssion gives rise to 200 MeV of energy that is available for conversion to electrical energy.

*HL Paper 2 - The Online Physics Tutor*

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Subject Details: Physics SL Paper 2 Markscheme Mark Allocation Candidates are required to answer ALL questions in Section A [25 marks] and ONE question in Section B [25 marks]. Maximum total = [50 marks]. 1. A markscheme often has more marking points than the total allows. This is intentional. Do not

*MARKSCHEME - IB Documents*

Subject Details: Physics HL Paper 2 Markscheme Candidates are required to answer all questions. Maximum total 9 5 marks. 1. Each row in the "Question" column relates to the smallest subpart of the question.

*November 2016 Physics Higher level Paper 2*

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