GRADE 9 NATURAL SCIENCES
NOVEMBER EXAMINATION

SECTION A
QUESTION 1

1.1 Various options are provided as answers to the following questions. Choose
the correct answer and write ONLY the LETTER(A-D) next to the
QUESTION NUMBER (1.1.1-1.1.10) on your answer sheet, for example
1.1.11 D.

1.1.1   If cells are added in parallel the total voltage will...

    A   Increase
    B   Decrease
    C   Remain the same
    D   Increase then decrease

1.1.2   Why do we use copper in our house's wiring?

    A   Good insulator
    B   Good and cheap conductor
    C   Good, but expensive conductor
    D   Good and cheap insulator

1.1.3   The energy conversion that takes place in a cell:

    A   chemical -> electrical -> kinetic
    B   electrical -> chemical -> kinetic
    C   chemical -> electrical
    D   chemical -> kinetic

1.1.4   Koeberg is this type of power station:

    A   Coal   B   Hydroelectricity
    C   Nuclear   D   Solar

1.1.5   An example of a wet cell:

    A   torch   B   radios
    C   car battery   D   toys

1.1.6   Example of converting wasted energy to useful energy:

    A   Filament lightbulbs
    B   Heating elements
    C   Buzzers
    D   Electrical motors

1.1.7   As the altitude increase the ... will decrease.

    A   Temperature   B   Mass
    C   Density   D   Distance

1.1.8   Which of the following is NOT a greenhouse gas?

    A CH_4
    B   water vapour
    C H_2O
    D   carbon dioxide

1.1.9   The reason why thicker wires offer lower resistance is...

    A   there is less space for protons to move.
    B   there is more space for the protons to move.
    C   there is less space for the electrons to move.
    D   there is more space for the electrons to move.

1.1.10   Factor that affects the magnitude of gravitational force:

    A   Mass
    B   Weight
    C   Height
    D   None of the above.   **(10x1)**

1.2   Provide the correct TERM for the following descriptions. Write ONLY the correct
TERM next to the QUESTION NUMBER (1.2.1-1.2.7) on your answer
sheet.

1.2.1 Solution that can conduct electricity

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Thomas Griffiths

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dec 1 2009   sekedar pengingat saja untuk persegi momen inersia nya adalah dan lokasi titik beratnya ada pada seperdua lebar dan seperdua tinggi persegi sementara untuk segitiga siku siku momen inersia dan lokasi titik beratnya ada

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menentukan titik berat penampang berhubung momen inersia yang diinginkan akan dipergunakan dalam perhitungan lenturan maka momen inersia ini haruslah diperhitungkan terhadap sumbu yang melalui titik berat penampang keterangan luas a mm2 jarak titik berat thd alas y mm a x y mm3 luas total 40 x 60 2400 30 2400 x 30 72000 luas