



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 CH₄
- B water vapour
- C H₂O
- 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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oh ch oh ch oh in water d hcl in acetonitrile ch 3 cn hcl does not form ions in

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