## <u>Part I</u>

**	Underline	the n	ost co	rrected	answer.
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- 01. Not an example for the mineral.
  - (1). Zircon

(2). Rutile

- (3). Apatite
- (4). Gneiss

- 02. The most hardest mineral and the least hard mineral respectively
  - (1). Diamond and graphite

(3). Diamond and gypsum

(2). Graphite and diamond

- (4). Diamond and talc
- 03. The scale used to compare the hardness of minerals.
  - (1). Richter scale

(3). Kelvin scale

(2). Mohr's scale

- (4). Rankine scale
- 04. A great creation of our ancient ancestors, for the conservation and sustainable used of water.
  - (1). Stream

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(2). River

(3). Tank

(4). Pond

- 05. Not a plant used to obtain raw materials for cloths.
  - (1). Cotton

(2). Jute

- (4). Malberry

- 06. Pegs of ..... timber were used in ancient time to granite rock.
  - (1). Jak

(3). Persian lilac

(2). Agar wood

- (4). Alexandrian lawrel
- 07. The chemical which is used to preserve or treat sleepers for railway lines and wooden electrical posts.
  - (1). Creosote

(3). Boric acid

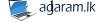
(2). Kerosine oil

- (4). Barrettine
- 08. The substance with the highest refractive index.
  - (1). Diamond

(3). Glass

(2). Blue sapphire

(4). Topaz



## Part II

- 01. (i). State 04 basic natural resources.
  - (ii). Explain the difference in between minerals and rocks.
  - (iii). Give 03 examples for minerals and rocks respectively.
  - (iv). State 01 location for following rocks/minerals in Sri Lanka.
    - (a). Apatite -
    - (b). Graphite -
    - (c). Kaolin -
    - (d). Gems -
- 02. (i). What are gems?
  - (iii). What is the national gem of Sri Lanka?
  - (iv). What is the separating technique used in gem mining?
  - (v). State 04 main characteristics of gems.
  - (vi). "An unerasable streak can be drawn on a calcite by using a piece of quartz" Explain above incident scientifically.
- 03. (i). Name 04 gems belong to the corundum family.
  - (ii). State 02 uses of gems.
  - (iii). Explain how gems obtain various colours.
  - (iv). Explain how gems obtain shiny nature.
  - (v). Mention 03 problems associated with gem industry.
- 04. (i). Explain the effect of fungi on decaying of timber.
  - (ii). What are the favourable factors important for the growth of fungi inside timber?
  - (iii). Name 02 micro organisms cause for the decaying of timber.
  - (iv). Mention 03 luxurious types of timber used to make furniture.
  - (v). Mention 03 methods of preventing the decaying of timber

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