

- (03) (A) (1) Sound transmit through solid medium (1 mark)
 (2) stretching the thread properly/ the distance between two people increase (2 marks)
 (3) ear (1 mark)
 (4) an organ (1 mark)
- (B) (1) (i) A constriction in the mercury stem/ the temperature range reduces/ short (1 mark)
 (ii) agree, because of temperature mercury expands and the bulb can be burst (1 mark)
 (2) radiation (1 mark)
 (3) (i) Glucose (1 mark)
 (ii) Protein (1 mark)
- (04) (A) (1) Soil minerals (1 mark)
 (2) soil organic matter (1 mark)
 (3) (i) respiration of soil organisms/ respiration of roots/ porosity. (1 mark)
 (ii) adding a clump of soil. (2 marks)
- (B) (1) Compound light microscope (1 mark)
 (2) body tube (1 mark)
 (3) lences are kept in a decicator (1 mark)
 (4) (i) LA- plane surface, B- concave surface (2 marks)
 (ii) For correct diagram. (1 mark)
- (05) (A) (1) Oxygen, silicon, aluminium (2 marks)
 (2) Core (1 mark)
 (3) (i) Suiphuric/nitric/hydrochloric (1 mark)
 (ii) soap water- green
 Lime juice-red (2 marks)
- (B) (1) A correct dichotomous key (2 marks)
 (2) body shape (1 mark)
 (3) (i) Bird or a mammal (1 mark)
 (ii) minimize the resistance in locomotion (1 mark)
- (06) (A) (1) Dicot seeds. (1 mark)
 (2) coteledon. (1 mark)
 (3) suitable dicot plants such as bears, long beans, etc. (2 marks)
 (4) chemical energy. (1 mark)
- (B) (1) drying, welding of metals, producing electricity ,for a suitable answer. (1 mark)
 (2) definite temperature at which a liquid convert in to gaseous state. (1 mark)
 (3) (i) air particles absorb heat. (1 mark)
 (ii) presence of international space station/aurora borealis/aurora austrialis. (1 mark)
 (4) chemical energy-heat energy-kinetic energy-electrical energy. (2 marks)
- (07) (A) (1) PH paper (1 mark)
 (2) methyl orange,phenopthaline (2 marks)
 (3) (i) Acid rain (1 mark)
 (ii) igneous rocks (1 mark)
- (B) (1) A vertical section of the different layers of the soil from earths crust (1 mark)
 (2) A - layer of biological activities occur
 C - weathering of mother rock form soil (2 marks)
 (3) (i) Soil erosion, land slides... (1 mark)
 (ii) root system (1 mark)
 (iii) xylum tissue/phloem tissue