

Mid Year Examination - 2015

Science

Grade 08

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Time: 02 Hours

Name/ Index No.

PART - I

• Answer all the questions.

- 01 'Mono Sodium glutamate' is used,
(1) For coagulating rubber latex. (2) for the conservation of food.
(3) as a agent of. (4) for making food taster.
- 02 An instrument made up by using expansion of a substance is,
(1) electric stove (2) hydrometer (3) thermometer (4) barometer
- 03 An animal which shows hemimetabolism is,
(1) mosquito (2) house - fly (3) cockroach (4) coconut beetle
- 04 The incorrect statement from the statemen given about an electric magnet is,
(1) Insulated conductive wires to be used for the coil of a electro - magnet.
(2) When increasing number of turns of the coil, magnetic effect is increased.
(3) Magnetic effect decreases when increasing electric current supplied for the coil.
(4) Magnetic effect is only limited to certain area around the coil.
- 05 An animal does not show predation is,
(1) mosquito (2) python (3) tiger (4) hawk
- 06 A plant which prefer high intensed light is,
(1) Anthurium (2) Fern (3) Orchid (4) Ixora
- 07 Poison fangs of snakes are,
(1) incissor teeth (2) canine teeth (3) molar teeth (4) all type of teeth
- 08 Not a property of albert solution used in hydroponics is,
(1) not included with all nutrients needed for the plant.
(2) dissolving in water well.
(3) not poisonous for roots.
(4) does not react with vessels.
- 09 Not a harmful effect can be resulted because of change of composition of air is,
(1) Climatic changes on earth.
(2) Changing temperature of environment.
(3) Occurring of acid rains.
(4) Decreasing transparency of air.
- 10 A compound which does not contain in iron ore is,
(1) hematite (2) magnetite (3) limonite (4) cork
- 11 Atmospheric pressure at sea level is about,
(1) 76 Pa (2) 100000 Pa (3) 1000 Pa (4) 760 Pa

12 Not a highly Poisonous snake is,

- (1) Common Krait
- (2) Forsten's cat snake
- (3) Ornate Flying snake
- (4) Pipe snake

13



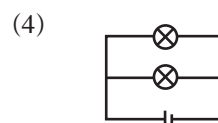
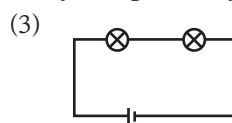
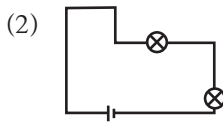
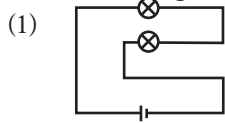
This standard symbol represents that,

- (1) Danger - Laser hazard
- (2) Danger - Biological hazard
- (3) Danger -
- (4) Danger - Radiation

14 symbol of Sodium element is,

- (1) S
- (2) So
- (3) Na
- (4) C

15 Circuit having two bulbs which connected to a dry cell parallaly is,



16 Answer with a pair of non - metallic elements is,

- (1) Alluminium , Iron
- (2) Copper , Carbon
- (3) Sulphur , Magnesium
- (4) Carbon , Sulphur

17 The layer of gas with the highest percentage of gases in atmosphere is,

- (1) exosphere
- (2) troposphere
- (3) stratosphere
- (4) mesosphere

18 Grass lands can be seen in,

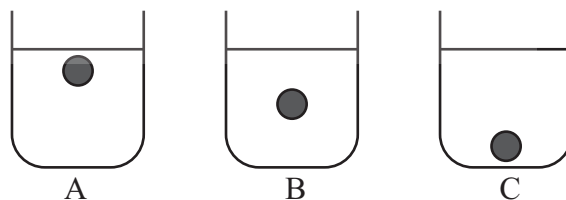
- (1) Thalawa
- (2) Damana
- (3) Wet patanas
- (4) Dry patanas

19 An antiseptic substance is,

- (1) Phenol
- (2) Boric acid
- (3) Milk of magnesia
- (4) Chlorine

20 Following diagrams show three vessels in equal size with 3 liquids named A, B, C and there are identical balls immersed in them. Density of liquids A, B, C in these vessels in ascending order is,

- (1) ABC
- (2) CBA
- (3) BCA
- (4) ACB



(2 x 20 = 40)

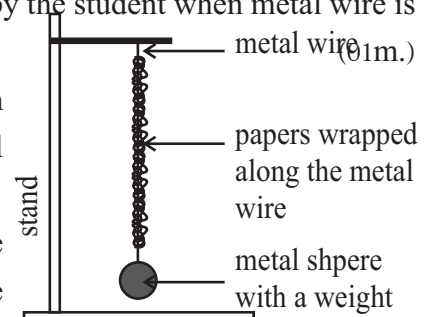
PART - II

● Answer 04 questions only.

01 Our surrounding is built up of matters and energy. matter is created by elements. Elements are varied according to their characteristics.

- (i) What is an element? (02m.)
- (ii) Write down the standard symbols of elements given below. (02m.)
 - (a) Copper
 - (b) Carbon
 - (c) Tungsten
 - (d) Lead
- (iii) What is the element known as Aurum in Latin? (01m.)
- (iv) Mention 2 characteristics of following elements and 2 uses of them. (04m.)
 - (a) Carbon
 - (b) Sulphur

- (v) (a) What is a homo atomic molecular? (01m.)
 (b) Write an example for a homo atomic molecular. (01m.)
- (vi) Water is a hetero atomic molecular. Name the elements which form water. (01m.)
- (vii) (a) Mention 2 characteristics. (01m.)
 (b) Mention 2 uses of Carbon dioxide. (02m.)
- 02 (i) What is known as pressure? (01m.)
 (ii) Area of the contact surface of a cube of stone is 4m^2 and its weight is 60000N. Find the pressure exerted by stone on the ground. (02m.)
 (iii) (a) Mention a strategy applied for decreasing pressure exerted by a tractor machine on ground. (01m.)
 (b) It is easy to place a stick with a sharp point on the ground. What is the reason for that? (01m.)
 (iv) Write 3 properties of pressure exerted by a liquid. (03m.)
 (v) Mention an instance where pressure of liquids is used. (01m.)
 (vi) What is the instrument of measuring pressure used to measure atmospheric pressure more accurately? (01m.)
 (vii) mention 2 instances of using pressure of air. (02m.)
 (viii) what is center of gravity? (01m.)
 (ix) Mention 2 factors that affect the equilibrium of an object. (02m.)
- 03 (A) Density is used in identifying purity of various substances. Therefore, density is a characteristic quality of substances.
 (i) What is density? (01m.)
 (ii) Write down the standard unit of measuring density and its symbol. (01m.)
 (iii) By using diversity of density usefully
 (a) mention an instance of separating components from a mixture of solid substances. (01m.)
 (b) mention an instance of separating components from a mixture of liquids. (01m.)
- (B) (i) Following is a set of apparatus prepared by a student to demonstrate expansion of metal wire. Metal wire is heated by burning papers wrapped along the metal wire.
- (a) What is the observation that can be taken by the student when metal wire is heating? (01m.)
 (b) What is the observation that can be seen in the set of apparatus when cooling metal wire after some time? (01m.)
 (c) Write the conclusion that can be made by student by using above observations. (02m.)



- (ii) What is the element used in an electric iron to keep at a constant temperature? (02m.)
- (iii) Balloons filled with air hanged for decorations at the morning will explode at noon. Explain this scientifically. (02m.)
- (iv) Mention 3 instances where expansion of gas is used. (03m.)
- 04 (A) Biotic factors as well as abiotic factors will affect for the survival of living beings. Temperature is one of them.
- (i) Mention 3 other abiotic factors help for survival of organisms except temperature. (03m.)
- (ii) (a) Mention an instance of using optimal temperature for biological activities of plants. (01m.)
- (b) Mention an instance of using optimal temperature for biological activities of animals. (01m.)
- (B) Crop cultivation gets main pace in producing food needed for population increasing in the word. Alternative methods are necessary instead of traditional methods.
- (i) Menton a method of traditional cultivation carried out in Sri Lanka. (01m.)
- (ii) Hydroponics gets prominent place among the advanced methods introduced recently. What is the name of solution of nutrients used in this method? (02m.)
- (iii) Write 2 properties to be in that nutritional media. (02m.)
- (iv) Explain the way of preparing a container for hydroponics at home using a plastic vessel. (03m.)
- (v) Mention two other special methods of cultivation except the above methods. (02m.)
- 05 Sri Lanka has natural eco systems with vast bio diversity.
- (i) Natural terrestrial environment of Sri Lanka is mainly in two parts. One of them is natural forests. What is the other one? (01m.)
- (ii) Mention 3 main features can be seen in tropical rain forests. (03m.)
- (iii) Mention 2 types of plants grow in these forests. (02m.)
- (iv) Sinharaja forest is the best example for this kind of forests. Name 2 other tropical rain forests in Sri Lanka. (02m.)
- (v) In which year Sinharaja forest was named as a world heritage? (01m.)
- (vi) Mention 2 districts with dry mixed evergreen forests in Sri Lanka. (01m.)
- (vii) Write 2 differences can be seen between a agricultural environment made by man and a natural forest. (02m.)
- (viii) Menton 2 features of plants grow in a dry mixed evergreen forests. (02m.)

May

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