Grade 08

Name/ Index No.

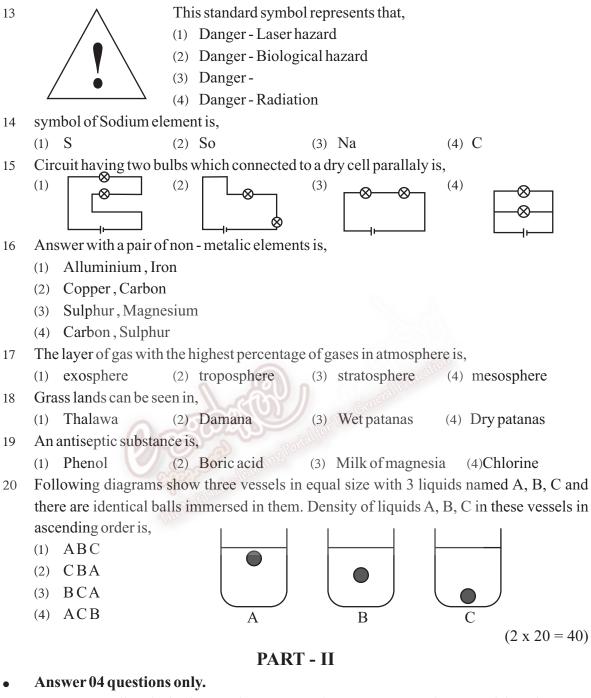
Mid Year Examination - 2015

## Science විදනාව

**Time: 02 Hours** 

PART - I Answer all the questions. 'Mono Sodium glutamate' is used, 01 (1) For coagulating rubber latex. (2) for the conservation of food. (3) as a agent of. (4) for making food taster. An instrument made up by using expansion of a substance is, 02 (1) electric stove (2) hydrometer (3) thermometer (4) barometer An animal which shows hemimetabolism is, 03 (2) house - fly (3) cockroach (4) coconut beetle (1) mosquito The incorrect statement from the statemen given about an electric magnet is, 04 (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 A plant which prefer high intensed light is, 06 (1) Anthurium (2) Fern (3) Orchid (4) Ixora Poison fangs of snakes are, 07 (1) incissor teeth (2) canine teeth (3) molar teeth (4) all type of teeth Not a property of albert solution used in hydroponics is, 08 (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. Not a harmful effect can be resulted because of change of composition of air is, 09 (1) Climatic changes on earth. (2) Changing temperature of environment. (3) Occurring of acid rains. (4) Decreasing transparency of air. A compound which does not contain in iron ore is, 10 (1) hematite (2) magnetite (3) limonite (4) cork Atmospheric pressure at sea level is about, 11 (1) 76 Pa (2) 100000 Pa (3) 1000 Pa (4) 760 Pa

- Not a highly Poisonous snake is, 12
  - (1) Common Krait
  - (2) Forsten's cat snake
  - (3) Ornate Flying snake
  - (4) Pipe snake



- Our surrounding is built up of matters and energy. matter is created by elements. 01 Elements are varied according to their characteristics.
  - What is an element? (i) (02m.)
  - (ii) Write down the standard symbols of elements given below. (02**m**.)

(c) Tungsten (a) Copper (b) Carbon (d) Lead (01m.)

- (iii) What is the element known as Aurum in Latin?
- (iv) Mention 2 characteristics of following elements and 2 uses of them.
  - (a) Carbon (b) Sulphur (04m.)

	(v)	a) What is a homo atomic molecular? (01n	n.)	
		b) Write an example for a homo atomic molecular. (01m		
	(vi)	Water is a hetero atomic molecular. Name the elements which from water. (01m.)		
	(vii)		m.)	
	(''')	b) Mention 2 uses of Carbon dioxide. (02n		
			,	
02	(i)	Vhat is known as pressure? (01r		
	(ii)	Area of the contact surface of a cube of stone is $4m^2$ and its weight is 60000N. Find		
		he pressure exerted by stone on the ground. (02m	1.)	
	(iii)	a) Mention a strategy applied for decreasing pressure exerted by a ba		
			m.)	
		b) It is easy to placed a stick with a sharp point on the ground. What is the rea for that? (01	nson m.)	
	(iv)	Vrite 3 properties of pressure exerted by a liquid. (03m	1.)	
	(v)	Aention an instance where pressure of liquids use. (01m	1.)	
	(vi)	What is the instrument of measuring pressure used to measure atmosph	eric	
			m.)	
	(vii)	nention 2 instances of using pressure of air. (02m		
		vhat is center of gravity? (01r		
	(ix)	Aention 2 factors affect for the equilibrium of an object. (02m		
		a contraction		
03	(A)	(A) Density is used in identifying purity of various substances. Therefore, density is		
		haracteristic quality of substances.		
			m.)	
		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 s		
			lm.)	
		(b) mention an instance of separating components from a mixture	e of	
		l i q u i d s	•	
		(01m.)	,	
	(B)	i) Following is a set of apparatus prepared by a student to demonst		
		expansion of metal wire. Meta wire is heated by burning papers wraped al the metal wire.	ong	
		(a) What is the observation can be taken by the student when metal wire heating?		
		(b) What is the observation can be seen in	.111.)	
		the set of apparatus when cooling metal	oped	
		along the m	etal	
		(c) Write the conclusion can be made		
		metal shper		
		by student by using above with a weig observations. (02m.)	,111	
		(0211.)		

- (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 m e t h o d s .
      (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 natural forests. What is the other one?	of them is (01m.)	
(ii)	Mention 3 main features can be seen in tropical rain forests.	(03 <b>m</b> .)	
(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 rain forests in Sri Lanka.	er tropical (02m.)	
(v)	In which year Sinharaja forest was named as a world heritage?	(01 <b>m</b> .)	
(vi)	Mention 2 districts with dry mixed evergreen forests in Sri Lanka.	(01 <b>m</b> .)	
(vii)	Write 2 differences can be seen between a agricultural environment mad and a natural forest.	de by man (02m.)	
(viii) Menton 2 features of plants grow in a dry mixed evergreen forests. (02m.)			