

# Sabaragamuwa Provincial Department of Education

## Third Term Test - 2020

### Grade 11

#### Science Part I

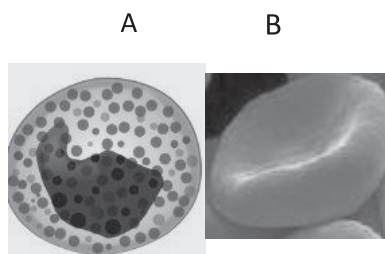
Time :- 1 hour

Answer all questions.

- 1) Select the vector quantity,  
1. Distance      2.Speed      3.Acceleration      4. Pressure
- 2) When plant cells are observed under the light microscope, what can be easily observed,  
1 .Chloroplast      2. Chromosomes      3. Protein      4. Water molecule
- 3) The instrument which is useful to measure the growth of a plant ;  
1 .Photometer      2.auxanometer      3. Anemometer      4. Indicator
- 4) The correct way of printing the Scientific name of coconut;  
1.Cocus nucifera    2. COCUS NUCIFERA    3. *Cocus nucifera*    4.Cocus Nucifera
- 5) The metal which does not react with dilute acids is,  
1. Sodium      2. Calcium      3. Magnesium      4. Copper
- 6) A and B are two types of blood cells in human body. Which gives

A and B are in to the order ?

1. white blood cells & platelets
2. Platelets & red blood cells
3. White blood cells & red blood cells
4. Red blood cells & white blood cells

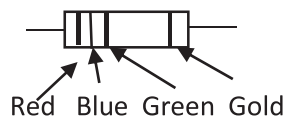


- 7) Plants which cannot be propagated by branch layering;  
1. Delum      2. Lime      3. Jasmin      4. Bread fruit

8) Which animal belongs to the warm blooded animal group

1. Swan                      2. Tortoise                      3. Bat                      4. Whale

9) The diagram shows a permanent resistor. The resistance of this is,



1.  $2600000\Omega$       2.  $625\Omega$       3.  $26000\Omega$       4.  $260\Omega$

10) Select the ionic compound;

1.  $CCl_4$                       2.  $HCl$                       3.  $CuSO_4$                       4.  $H_2O$

11) The hormone that influence secondary sexual characteristics in female is;

1. Estrogen                      2. Glucagon                      3. Aldosterone                      4. Adrenaline

12) The relative molar mass of magnesium is 24. Select the correct statement about it ;

1. There are 24 magnesium atoms in 1 mole of magnesium  
2. The atomic mass of magnesium is 24 g  
3. The mass of  $56$  magnesium atoms is  $6.022 \times 10^{23}g$   
4. The mass of  $6.022 \times 10^{23}$  of magnesium atoms are 24g.

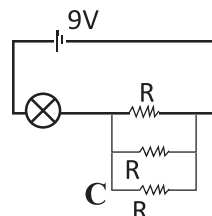
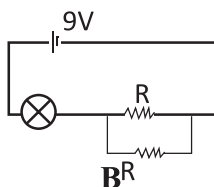
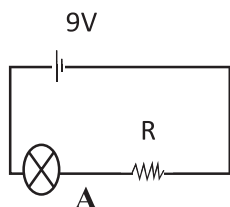
13) Energy stored in a stretched rubber strap is ;

1. Gravitational potential energy                      3. elastic potential energy  
2. Kinetic energy                      4. mechanical energy

14) An enzyme which is secreted on food that enters to stomach;

1. renin                      2. trypsin                      3. lipase                      4. amylase

15) R is a permanent resistor. A, B C circuits are arranged using R. Resistance of the bulbs are equal.



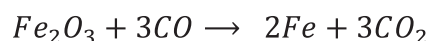
The bulb lights up with highest brightness in;

1. A                      2. B                      3. A & B                      4. C

16) What is the mass of man who weighs 600 N ?

1. 60kg                      2. 68 kg                      3. 100kg                      4. 50 kg

17) The following is a balanced chemical equation related to extraction of iron.



How many moles of Hematite are needed to produce 6 moles of iron?

1. 6                      2. 3                      3. 2                      4. 1

18) Which answer contains polar organic solvent & non polar organic solvent in order;

1. Acetone , water    2. benzene , acetone    3. acetone , benzene    4. ethanol ,acetone

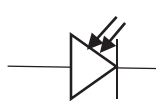
19) Which symbol represents rectifier diode?



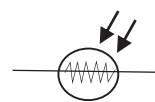
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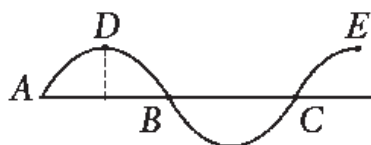


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4

20) This diagram shows a graphic representation of a sound wave .The wave length is represented by



3.

1. AC  
2. BD

3. AB  
4. BC

21) The chamber of heart having the highest thickness is

1. Right ventricle    2. left auricle    3. left ventricle    4. right auricle

22) The number of atoms in 12 g of ( $^{12}_6C$ ) is equal to ;

1. Oxygen 8 g    2. Hydrogen 2 g    3. Sodium 23g    4. Nitrogen 28g

23) The chemicals necessary to produce  $CO_2$  gas in the laboratory are;

1. Potassium permanganate                      2. Heating potassium chlorate  
2. Calcium carbonate & hydrochloric acid                      4. Zinc & hydrochloric acid

24) A semiconductor is ;

1. Boron                      2. Aluminum                      3. Phosphorus                      4. Silicon

25) The carbonate of X is  $X_2CO_3$ . What is the formula of the chloride of X?

1.  $X_2Cl$                       2.  $XCl_2$                       3.  $XCl$                       4.  $XCl_4$

26) An occasion where a convex mirror is used in day today life is ;

1. To make Kaleidoscope                      2. Side mirrors of vehicle  
3. To enlarge small fonts                      4. For beauty salons

27) The speed of a bus is  $72Kmh^{-1}$ . The speed of bus in meters per second is;

1.  $2ms^{-1}$                       2.  $20ms^{-1}$                       3.  $3000ms^{-1}$                       4.  $200ms^{-1}$

28) The standard symbol of aluminum is  ${}_{13}^{29}Al$ . Select the correct statement about Aluminum.

1. Protons-13 , Electrons- 13                      2. Protons-13, Neutrons -27  
3. mass number- 14, atomic number- 13                      4. atomic number- 27, mass number- 13

29) Which deficiency causes unnecessary thickness in plant leaves?

1. Potassium                      2. Zinc                      3. Calcium                      4. Iron

30) The element with electronic configuration of 2,8,5 belongs to this group and period in order;

1. III , 5                      2. 2, I                      3. V , 3                      4. 3, V

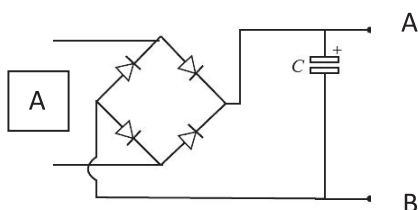
31) A ship sinks more in fresh water than in sea water. The reason is ;

1. Water creates high up thrust                      2. Up thrust of fresh water is less  
3. Density of fresh water is less than sea water                      4. the weight of ship reduces in sea water

32) The endothermic chemical reaction is ;

1. Dissolve Sodium hydroxide in water                      2. Dissolve calcium oxide in water  
3. Reaction of magnesium with hydrochloric acid                      4. dissolve glucose with water

33) This diagram is a circuit. A and C represents;

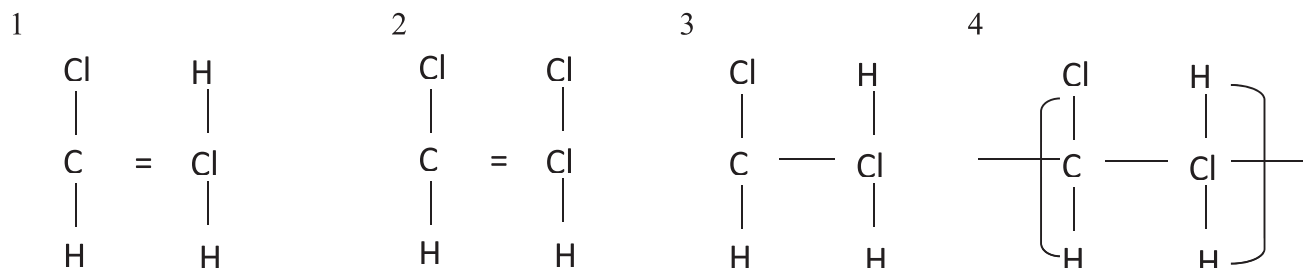


1. Diode, fuse                      2. capacitors , cells  
3. Bridge circuit, capacitor                      4. Bridge circuit, cell

34) The function of cerebellum is;

1. Control heart beat
2. Control respiration rate
3. Balance body
4. Control higher mental activities like intelligence

35) What is the repeating unit of poly vinyl chloride?



36) During the COVID-19 outbreak the whole world was locked down. What are the significant changes occurred in this period in biosphere?

1. Reduce carbon foot print
2. Reduce water foot print
3. Reduce food mile
4. Increase population

37) A suitable method to decay unnecessary iron waste within short period of time is

1. Allow it to contact with aluminum
2. Allow it to contact copper
3. Bury in soil
4. stack on a free place

38) In a transformer the primary coil has 500 turns and secondary coil has 5000 turns. If the current is alternative and potential difference of the primary coil is 12 v, what is the potential difference of the secondary coil?

1. 1200v
2. 12 v
3. 12000v
4. 120 v

39) A conductor which kept perpendicular to a magnetic field in a closed circuit generates a current relevant to;

1. Fleming's left hand rule
2. Ampere's right hand rule
3. Fleming's right hand rule
4. Maxwell's screw law

40) The reason to apply silver on inner surface of a flask is?

1. Block heat conduction through the conductor
2. Avoid releasing heat through radiation
3. Avoid heat releasing through convection
4. For the protection of the glass

