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පළමුවාර ඇගයීම - 2019 First Term Test Evaluation - 2019				
ශ්‍රේණිය 11 Grade	විෂයය Subject	විද්‍යාව Science	පත්‍රය 1 Paper	කාලය පැය 01 Time 1 Hour

Name

- Answer all Questions.
- Select the most appropriate answer out of the four.
- Draw ' x ' in the relevant box for each question in the answer sheet.

01. The type of protein present in hair and feathers of birds is,

1. Keratin 2. Cutin 3. Albumin 4. Kitin

02. Which is an example for solid – solid homogenous mixture?

1. Sand – cement mixture 2. Cake mixture 3. Salt and pepper powder mixture 4. Brass alloy

03. Select the answer containing biological molecules that are used for creating living matter.

1. Carbohydrates, Proteins, Lipids 2. Lipids, Vitamins, Proteins
3. Nucleic acids, Proteins, Vitamins 4. Carbohydrates, Lipids, Vitamins

04. When light ray travel through the optical fibre. The light ray is,

1. Reflected 2. Refracted 3. Total internal reflected 4. Reflected and refracted

05. Velocity of a certain object changed within 10 seconds from 20 ms^{-1} to 40 ms^{-1} , Which is the acceleration of that object during that period ?

1. 2 ms^{-1} 2. $\frac{1}{2} \text{ ms}^{-1}$ 3. 2 ms^{-2} 4. $\frac{1}{2} \text{ ms}^{-2}$

06. The only sugar that absent in plant is ,

1. Maltase 2. Glucose 3. Sucrose 4. Lactose

07. Which is not an example for connective tissues?

1. Blood 2. Bones 3. Epidermis of skin 4. Cartilage

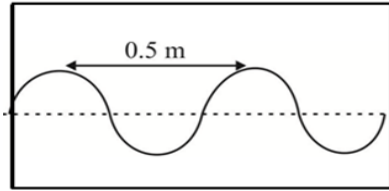
08. What is the salt that responsible for hygroscopic nature of common salt?

1. Magnesium chloride 2. Calcium sulphate 3. Calcium carbonate 4. Calcium chloride

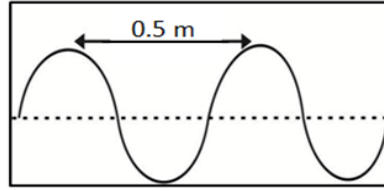
09. An instrument that is not used in preparation of a standard solution,

1. Wash bottle 2. Watch glass 3. Funnel 4. Conical flask

10. What is the similarity of two graphs obtained from the cathode ray oscilloscope?



1



11

- | | |
|---------------------------|--------------------------|
| 1. Pitch of the two waves | 2. Loudness of two waves |
| 3. Amplitude of two waves | 4. Pitch and loudness |

11. Select the answer of correct sequence of tissues that contain cells of isodiametric and lignified walls respectively.

1. Parenchyma tissue and collenchymas tissue
2. Parenchyma tissue and sclerenchyma tissue
3. collenchymas tissue and sclerenchyma tissue
4. collenchymas tissue and parenchyma tissue

12. Select the correct matching from following.

- A. – Night blindness - Vitamine A
 B - Weakening of bones - Vitamine B
 C - Weakening of gum - Vitamine C

1. A and B only 2. B and C only 3. A and C only 4. A , B , C all

13. Separating methods that use differences of densities of the components to separate them are,

1. Winnowing and sieving 2. Sieving and sifting
3. Sieving and floating on water 3. Sifting and winnowing

14. Which is not a pair with equal number of electrons from following atoms/ions?

1. Na^+ , Ca^{++} 2. Al^{+3} , Na^+ 3. Na^+ , Mg^{++} 4. K^+ , Ca^{++}

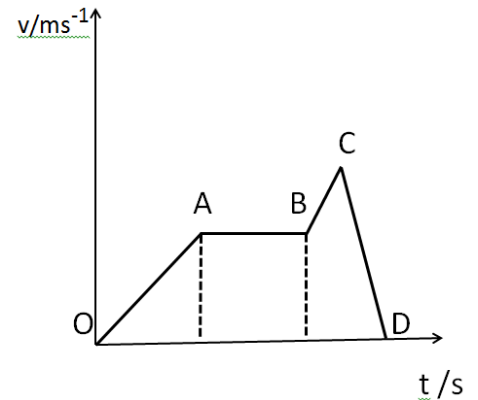
15. Select an instance of using microwaves.

- a. In mobile phones
- b. In radar systems
- c. In physiotherapy treatments
- d. In checking hidden symbols in currency notes

1. a and b only 2. B and c only 3. C and d only 4. A , b and c only

16. OA , AB , BC and CD of this velocity – time graph indicate respectively,

1. Uniform velocity, uniform acceleration, uniform deceleration, uniform acceleration
2. uniform acceleration, Uniform velocity, uniform acceleration, uniform deceleration
3. Uniform velocity, uniform acceleration, uniform acceleration, uniform deceleration
4. uniform acceleration , Uniform velocity , uniform deceleration, uniform acceleration



17. A Student put the powder to the correct board . Scientific reason for adding powder is,

1. Frictional force is increased by powder
2. Frictional force is decreased by powder
3. The speed of carom discs is increased due to powder
4. The speed of carom discs is decreased due to powder

18. Formular of baking soda wich is commonly used to make the dough in food preparation is NaHCO₃.

What is it molar mass? (Na – 23 H – 1 O – 16 C - 12)

1. 80 gmol⁻¹
2. 82 mol
3. 84gmol⁻¹
4. 84 mol

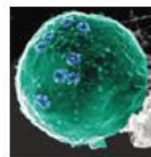
19.



A



B



C

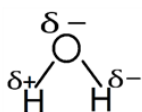
A B , C respectively

1. Ribosomes . Golgibodies , Mitochondria
2. Mitochondria, Ribosomes, Golgibodies
3. Golgibodies, Ribosomes , Mitochondria
4. Mitochondria, Golgibodies, Ribosomes

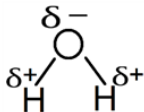
20. The function of golgi complex is ,

1. Generate energy
2. Production of secretory substances
3. Maintain water balance
4. Transport of protein

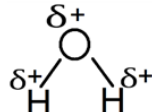
21. Select the correct diagram of water molecule.



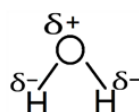
1.



2.



3.



4.

22. Which answer contains the relevant gases respectively for the below statements.

A – To make dry ice

B - As a fuel for rocket

C - As raw material for the production of sulphuric and nitric acid.

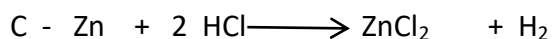
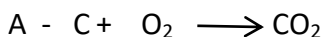
1. CO_2 , H_2 , O_2

2. H_2 , O_2 , CO_2

3. O_2, H_2 , CO_2

4. CO_2 , O_2 , H_2 ,

23. Which answer contains decomposition and single displacement reaction respectively?



1. A and B

2. B and C

3. B and D

4. A and B

24. Select the answer with correct statement from following .

A - Water has high specific heat capacity due to inter molecular interactions among water molecules

B - Graphite and diamond are two ways of atomic lattice

C - Boiling point and melting points of covalent compound are low

1. A and B only

2. B and C only

3. A and C only

4. A , B , C all

25. The instance where atmospheric pressure is not used ,When

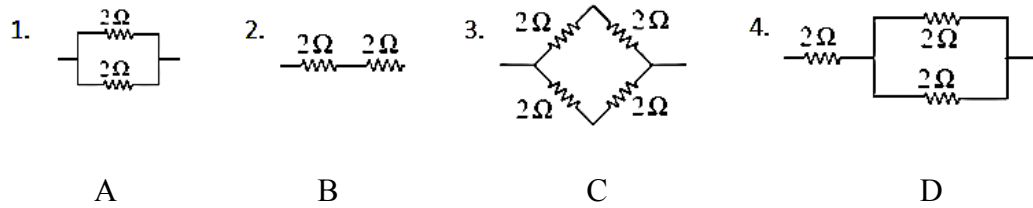
1. Drinking soft drink by using straw.

2. Removing water from a tank by using a siphon

3. Fixing rubber sucker on to a glass

4. Applying break on a vehicle

26. Sets of resistors are shown in above diagrams. The correct sequence of equivalent resistance, When they Arrange in ascending order is,



1. D, B, C, A 2. B, C, D, A 3. A, C, D, B 4. A, B, D, C

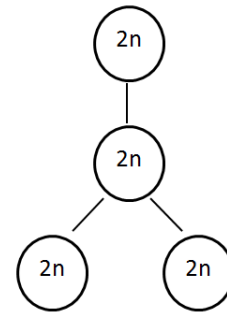
27. Four men applied equal forces to a car with a weight of 1000 kg to give an acceleration of 10 ms^{-2} .

What is the force applied by

1. 10 000 N 2. 1000 N 3. 500 N 4. 250 N

28. The instance of seeing this method of cell division is

1. When producing ovules within the ovary.
2. When producing sperms of sperm mother cells.
3. When healing the wound on the skin
4. When producing pollen



29. What does mean by growth?

1. Increase the number of cells by cell division.
2. Formation of zygote by the union of gametes.
3. Differentiation of cells.
4. Inevitable increase of the size of the cell.

30. Meiosis is important,

1. When asexual propagation is occur.
2. When maintain fixed chromosome number over generation.
3. When producing identical daughter cells from mother cells.
4. When growing the body of multicellular organisms.

31. Select the answer containing correct sequences.

- A Metal sodium gives sodium oxide by reacting with cold water.
 B Oxides of sulphur show strong acidic properties.
 C Silicon is used to make the electronic devices such as transistors

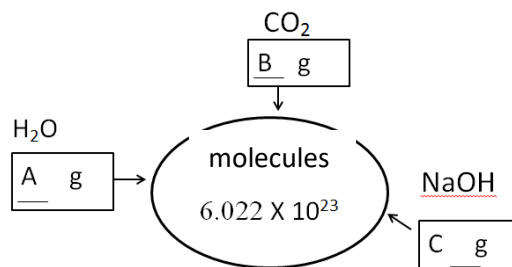
1. A and B only 2. B and C only 3. A and C only 4. A, B, C only

32. Molar fraction of water that is contained in a solution prepared by dissolving 40 g of sodium hydroxide in of water is, (H = 1 , O – 16 , Na = 23)

1. 40/41 2. 1/41 3. 4/41 4. 1/18

33. Values of A , B and C respectively are ,

1. 40 , 44 , 18 2. 40 , 18 , 44
 2. 18 , 44 , 40 4. 44 , 18 , 40

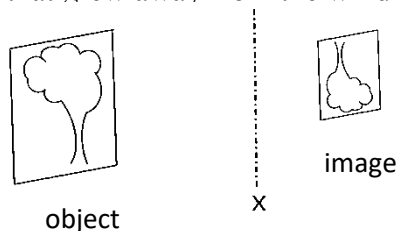


34. A photo is hung as in the diagram, Select the correct Statement about the photo.

1. It is in equilibrium under the action of 3 parallel force
 2. It is in equilibrium under the action of 2 forces
 3. It is in equilibrium under 3 non parallel forces
 4. It is in the equilibrium under 3 equal forces.



35. Image created on the wall by a tree that grew away from the window is shown in the diagram.



The optical equipment represented by x is,

1. Convex lens 2. Concave lens 3. Convex mirror 4. Plane mirror

36. If the time taken by ultra sound waves transmitted by a ship to reach the detector again after reflection from the sea bottom is 6 seconds , The depth of the sea is , (speed of sound in water is 1440 ms⁻¹)

1. 1440 X 6 m 2. $\frac{1440 \times 6 \text{ m}}{2}$ 3. $\frac{1440 \times 2 \text{ m}}{6}$ 4. $\frac{1440 \times 6 \text{ m}}{3}$

37. The optical instruments that can be taken a virtual image only,

1. Convex lens and concave lens 2. Convex mirror and concave mirror
 3. Convex mirror and concave lens 4. Convex lens and concave mirror

38. Read the statement given below about solubility .

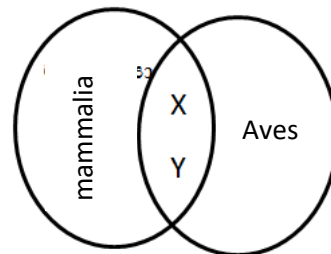
- a Temperature affects on the solubility of a solid.
- b Pressure affects on the solubility of a gas.
- c Non polar solutes dissolve in non polar solvents.

The true statements from above are,

1. Only a and b 2. Only b and c 3. Only a and c 4. Only a , b and c

39. X and Y are common features of group mammalia and aves . Which answer contains relevant common features for X and Y respectively?

- 1. Having 4 chambered heart and teeth present inside the mouth
- 2. Having 4 chambered heart and become homoiothermic
- 3. Become homoeothermic and body is covered by feathers
- 4. Posses mammary glands and having light bony endoskeleton



40. 50 mg of potassium iodate is contained in 1 kg of Iodized salt. What is the composition of Potassium Iodate in that salt solution.

1. 0.5 ppm 2. 50 ppm 3. 550 ppm 4. 5000 ppm