(7)

**GREENLAWNS HIGH SCHOOL**
**TERMINAL EXAMINATION YEAR 2017**

**SUBJECT: GENERAL SCIENCE** **CLASS: VII**

**TIME: $1\frac{1}{2}$ HOURS** **MARKS: 80**

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Use the reading time to read paper carefully. Write concise, to the point answers using scientific terms. All answers to be written on the answer booklet provided to you.

**Question 1. Fill in the blanks. (Write only answers.)** **(8)**

1) Plants carry out gas exchange through _____.
2) The weight of an object on the Earth is the _____ force exerted by the earth on that object.
3) Water is formed by chemical combination of _____ and oxygen in fixed atomic ratio 2: 1.
4) Respiration takes place in cell organelle _____ .
5) The number of atoms present in one molecule of an element is known as its _____.
6) When two colours are added together to produce white, they are called _____ colours.
7) Exoskeleton of arthropods is made up of _____.
8) Light travels in _____ line with a speed $3 \times 10^8$ m/s.

**Question 2. State whether true or false. If false change the underlined word to correct statement. (Write true or false and corrected word)** **(8)**

1) The properties of compounds differ from those of its constituent elements.
2) Motion is caused by balanced force acting on an object at rest.
3) Fishes breathe through lungs.
4) The process by which food (glucose) is broken down to release energy is called photosynthesis.
5) The oscillatory motion can also be called as periodic motion.
6) When rays of light actually meet at a point after reflection, we get virtual image.
7) Aerobic respiration is also known as fermentation.
8) Sulphur molecule has four atoms of sulphur.

**Question 3. Name the following.** **(8)**

1) The bristle like structures present in annelids.
2) The SI unit of weight.
3) The phylum to which roundworms belong.
4) The small particle that makes up an element.
5) The tissues in plants which transport glucose from leaves to other parts of plants.
6) The method of separation used separate crude oil into various useful substances.
7) The organelle that stores green pigment.
8) The point where ray of light strikes or falls on the surface of the mirror.

**Question 4. Pick the odd one out and explain why it is odd.** **(8)**

1) Motion of hands of clock, Motion of blades of ceiling fan, Motion of a plucked string of a guitar, Motion of blades of windmills.
2) Reptiles, Birds, Amphibians, Fishes.
3) Sodium, Magnesium, Carbon-dioxide, Calcium.
4) Mussel, Oyster, Star fish, Snails.

**Question 5. Choose the correct option.** **(4)**

1) Symbol of Nitrogen-
a) N b) Ne c) Ni d) Na

2) Symbol of Gold-
a) Ga b) Au c) Ge d) Ag.

3) Symbol of Chlorine-
a) Co b) Cr c) Cn d) Cl

4) Symbol of Helium-
a) H b) He c) Hm d) Ho

**Question 6. Define the following.** **(4)**

1) Displacement.
2) Anaerobic respiration.
3) Saturated solution.
4) Plane mirror.

**Question 7. Differentiate between the following based on the points given in the brackets.** **(5)**

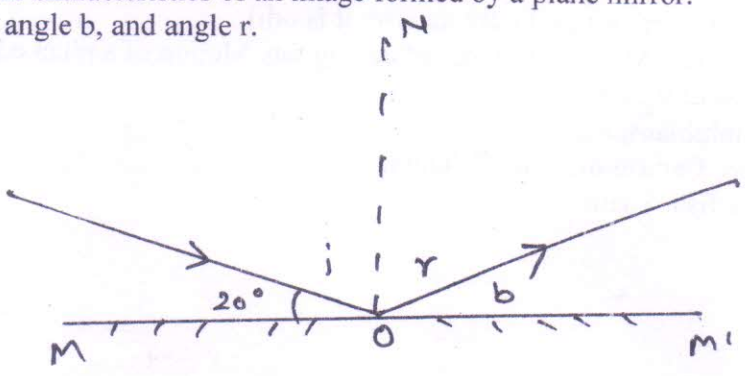
1) Protons and Electrons (Its position)
2) Mass and weight (Instrument used for measurement)
3) Vertebrates and Invertebrates (Definition)
4) Real Image and Virtual Image (Nature)
5) Photosynthesis and Respiration (Definition)

**Question 8. Give scientific reasons for the following.** **(10)**

1) A drilling machine shows multiple motions. (2 Points)
2) Gases are highly compressible. (2 Points)
3) Reflection of light enables us to see objects around us. (2 points)
4) Tapeworms are able to grip the body of the host. (2 points)
5) Air is a mixture.
6) We should not sleep close to trees at night.

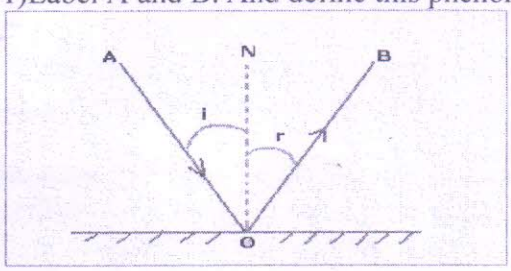
**Question 9. Answer the following questions.** **(15)**

1) State the principle based on which components of emulsion are separated. (1)
2) What are the three parts of the body in molluscs? (1)
3) State any 2 factors affecting photosynthesis. (1)
4) State the function of condenser in the set up of distillation. (1)
5) What is the similarity between birds and fishes? (Other than they are vertebrates) (1)
6) How cnidarians are differentiated based on their structure? (2)
7) Explain the two forms of heterogeneous mixtures in brief? (2)
8) State any three characteristics of an image formed by a plane mirror. (3)
9) Find angle i, angle b, and angle r. (3)

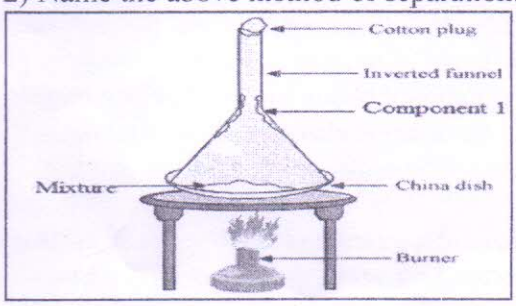


**Question 10. Answer the following question based on the given picture.** **(10)**

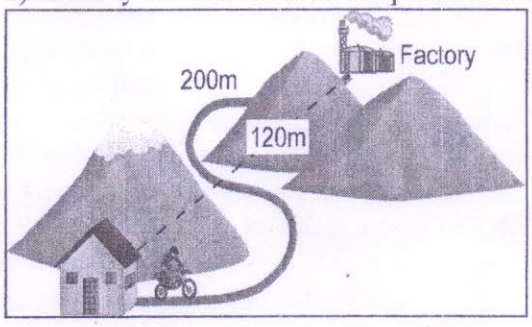
1)Label A and B. And define this phenomenon. (2)



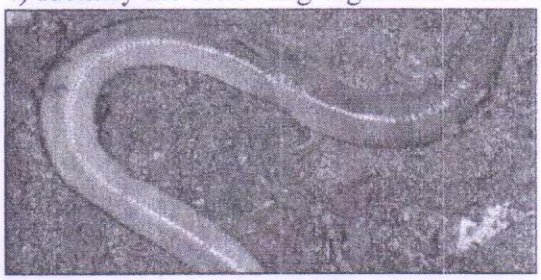

2) Name the above method of separation. Give one example of the same. (2)




3) Identify the distance and displacement in the following figure. (2)




4) Identify the following organism. What is the other name of these worms? (2)



5) Identify the following organism. How do these animals move? (2)