GREENLAWNS SCHOOL, WORLI

TERMINAL EXAMINATION -2018

SCIENCE

STD:VII MARKS:80

DATE: 01 / 10 /2018 TIME: 1½hrs

NOTE: Attempt all questions.
All diagrams to be done in pencil only.
All answers to be written on the answer booklet provided.

QI) Fill in the blanks: **[5]**

a. Euglena has a whip-like structure called _____.
b. A network of hyphae is called _____.
c. The scientific name for mango is _____.
d. Burning releases _____ and _____ forms of energy in a chemical change.
e. _____ cannot be broken down into simpler substances.
f. The amount of space occupied by an object is called _____.
g. _____ energy released by the nuclei of an atom is used to generate electricity.
h. _____ is the capacity to do work and its SI unit is _____.

QII) State whether the following statements are true or false. If false, correct the false statement: **[6]**

a. Bacteria are capable of surviving in the harshest conditions.
b. Respiration in an amoeba occurs by diffusion.
c. Fermentation of door gives us bread which is soft.
d. Digestion of food is a physical and desirable change.
e. Freezing is an exothermic and reversible change.
f. The speed of an object is the time taken to displace an object.
g. Muscular energy is derived from the physical energy stored in the body.
h. A measuring cylinder is used to measure the volume accurately.

QIII) Name the following: **[7]**

a. The bacteria found on the root nodules of leguminous plants.
b. The only unicellular form of fungi.
c. A non flowering plant that forms a velvet green layer.
d. An example of an irreversible change...
e. An example of sound energy.
f. An example of using heat and light energy.
g. The two types of nutrition.
h. Any two examples of monocot seeds.
i. Any two sublimable substances.
j. Any two examples of compounds in the solid state

QIV A) Pick out the odd one and give a reason to support your answer: **[3]**

a. Dissolving ,Rusting, Cooking, Curdling
b. Square, Triangle, Rectangle, Prism
c. Dog, Cat, Earthworm, Bird.

B) Solve the following: **[5]**

a. Find the volume of the cube whose height is 7 cm. [1]

b. You have a rock with a volume of 15 cm^3 a mass of 4g. what is it density. [1]

c. .A tourist bus travelled at a distance of 568Km in 8 hours. Find out the speed of the tourist bus. [1½]

d. Find the area of the unshaded portion in this figure. [1½]

QV A) Define the following terms: **[5]**

a. Species
b. Rusting
c. Valency
d. Capacity
e. Law of conservation of energy

B) Distinguish between the following with the help of the clues given within the brackets: **[10]**

a. Prokaryotic organism and Eukaryotic organism [meaning] [2]

b. Saprotrophic and Parasitic fungi [nutrition] [2]

c.Physical change and Chemical change [definition] [2]

d. Atom and Radical [charge] [2]

e. Kinetic energy and Potential energy [any two examples for each] [2]

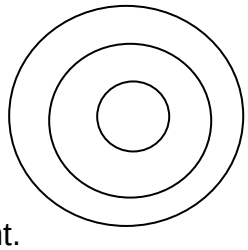
QVI) Answer the following questions: **[10]**

a. What is retting? How is it carried out? [2]
b. What is Rhizopus? Where are they found? [2]
c. List the four factors that affect evaporation. [2]
d. Mention any four unique characteristics of a solid. [2]
e. State the composition of matter. [2]

QVII Give scientific reasons for the following: **[10]**

a. O_2 is a molecule. [2]
b. Burning is a chemical change. [2]
c. Gases spread easily. [2]
d. Hydroelectric power plants generate electricity. [2]
e. Bacteria plays an important role in recycling nutrients. [2]

QVIII A) With reference to the given figure answer the questions that follow: **[5]**



a. Name this element. [½]
b. Atomic number is denoted by _____ and mass number by ____. [1]
c. What is a shell? [1½]
d. How would you calculate mass number of an atom? [2]

B) Deduce the molecular formula of the following: **[4]**

a. Magnesium Chloride

b. Calcium sulphide

c. Sodium Nitrate

d. Zinc sulphate

C) With reference to the Modern Periodic Table, answer the questions that follow: **[6]**

a. What are the elements from group 3 to group 12 called? [½]
b. Name any one metalloid. [½]
c. Name any two elements of group 18. [1]
d. How is the arrangement of elements done in a periodic table? [2]
e. What are inner transition elements? [2]

D) Draw a neat labelled diagram showing the Binary Fission in Amoeba. **[4]**

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