GREENLAWNS SCHOOL, WORLI

Terminal Examination: 2017-18

GENERAL SCIENCE

Std: VII Marks: 80

Date: / /2017 Time: 1½ hrs

Carefully read this paper in the first ten minutes. Your answers should be concise and contain scientific terms. All answers have to be written on the answer script.

Q.1) Name the following: [10]

a. A nitrogenous compound that is used as a fertilizer.
b. A chemical bond formed by the sharing of electrons between elements.
c. Mode of locomotion in amoeba.
d. Motion that repeats itself after certain intervals of time.
e. Liquid part of blood.
f. An example of emulsion.
g. Rod shaped bacteria.
h. A torch used for welding and cutting metals.
i. The perpendicular line drawn on the surface of the mirror at the point of incidence.
j. Instrument that measures weight.

Q.2) Fill in the blanks: [10]

a. Gravity is slightly more at the _____
b. _____ branch out from the cell body of neuron in a root-like fashion.
c. A network of hyphae is called _____
d. An atom or a group of atoms that loses electrons and develops a positive charge is called _____
e. _____ is the bouncing back of light rays from a surface.
f. Nitrogen is used in making a wide variety of medicines, including _____
g. If an object performs more than one type of motion at the same time, then the object is said to have _____ motion.
h. The Latin name of gold is _____
i. Light travels in straight lines with a speed of _____
j. In the year 1969, _____ proposed a five-kingdom classification of living organisms.

Q.3) Correct the following false statements: [5]

a. Respiration is an example of rapid oxidation.
b. All bacteria are grouped under Kingdom Protista.
c. Distance is the shortest distance that takes direction into account.
d. Distillation is a method of separating solid-solid mixtures.
e. Cotton and jute are examples of sclereids.

Q.4) Define the following: [5]

a. Valency
b. Plane mirror
c. Pressure
d. Classification
e. Acid rain

Q.5) Give difference between the following pairs on the basis of what is indicated in the brackets: [5]

a. Mass and weight (SI unit)
b. Angle of incidence and angle of reflection (meaning)
c. Scalar and vector quantities (examples)
d. Homogenous and heterogeneous mixtures (definition)
e. Fungi and amoeba (nutrition)

Q.6) Give scientific reasons for the following: [5]

a. You weigh less on the moon than on the Earth.
b. Bacteria is said to be prokaryotic.
c. The compound iron sulphide cannot be separated using any physical means.
d. Carbon dioxide is used in fire extinguishers.
e. Bones are strong and rigid.

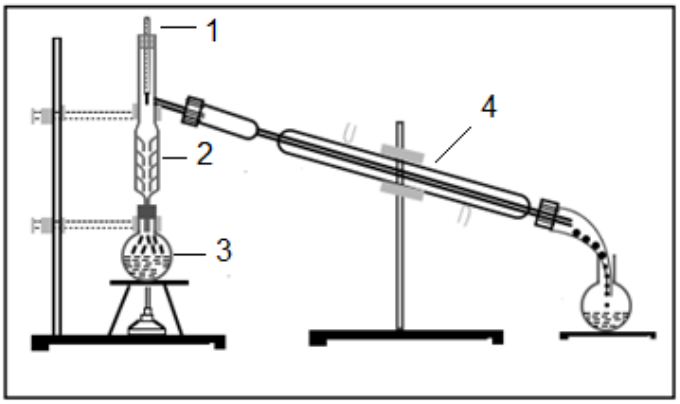
Q.7) Answer in short: [14]

a. What are the harmful effects of fungi?
b. Give any two uses of paper chromatography.
c. State the laws of reflection.
d. Suggest some methods to reduce air pollution.
e. Shreya throws a ball 30 feet North for her dog. The dog catches the ball and takes it past Shreya to her brother, who is standing 5 feet to the South of where she is. Calculate the distance travelled and the displacement of the dog.
f. Mention two uses of bacteria.
g. Complete the equations:
   Sulphur + Oxygen → _____
   Sodium + Oxygen → _____

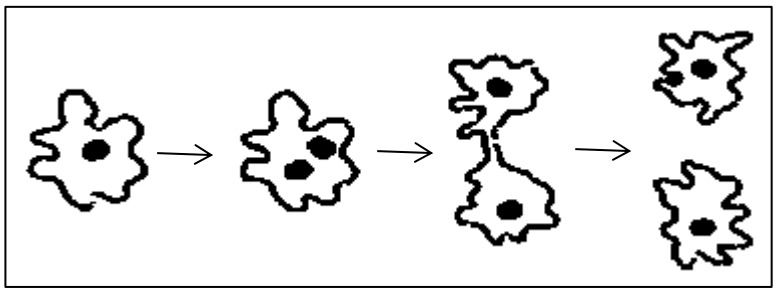
Q.8) Answer the following diagram based questions:

a. Observe the laboratory set-up given on the next page and answer the following questions:

i. Label the components 1, 2, 3 and 4. [2]
ii. What is this apparatus used for? [1]
iii. What kind of mixture is separated into its components using this method? [1]
iv. Give one example of a mixture separated by this method. [1]
v. Which component of the mixture mentioned by you above will be separated first? [1]
vi. What is the principle of this method? [1]

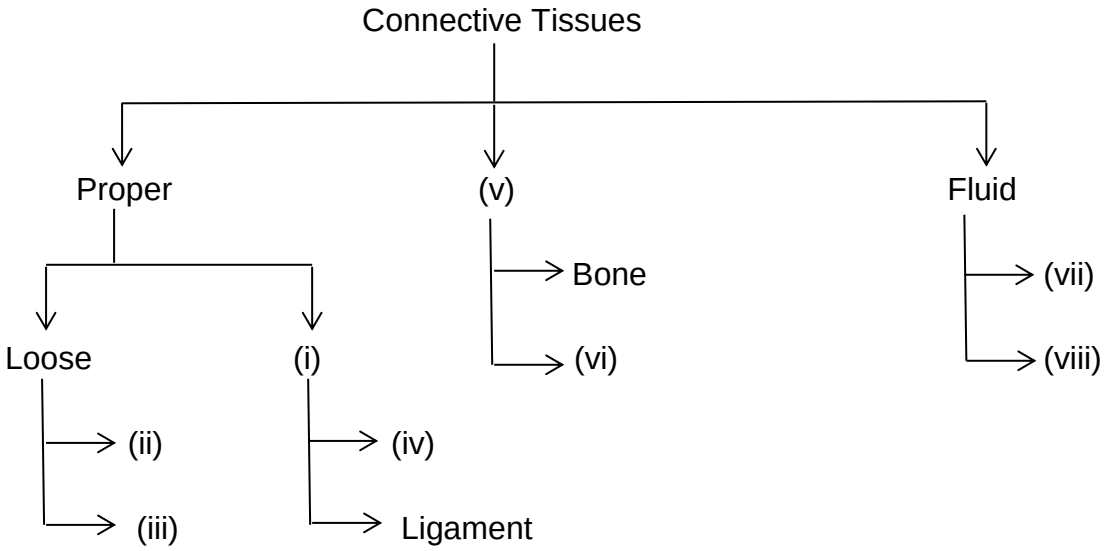


b. The diagram given below represents a process in an organism:



i. Identify the process depicted in the above picture. [1]
ii. Name the organism shown in the given picture. [1]
iii. Name the kingdom to which the organism belongs. [1]
iv. Give example of another organism belonging to the same kingdom. [1]
v. How does this organism respire? [1]

c. Complete the chart given below with correct answers for (i) to (viii): [4]
(Do not draw the chart)



Q.9) Deduce the molecular formula of the following: [4]
a. Calcium nitrate
b. Zinc carbonate
c. Potassium sulphate
d. Aluminium chloride

Q.10) Draw neat and labelled diagrams of the following: [6]
a. Nitrogen cycle
b. Image formation of a point image

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