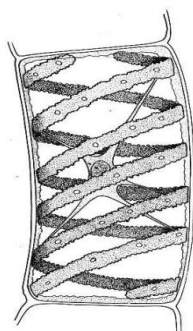


Answer the following:-

1. Thallophytes, Bryophytes and Pteridophytes are called as 'cryptogamae'. Why? (1)
2. a) How many joules make 1 kilowatt hour? (1)
b) What is the form of energy possessed by a body vertically thrown upwards at its maximum height?
3. Write the chemical formula of the following compounds. (1)
a) copper(ii)nitrate b) calcium sulphide
4. Cutting and piercing tools are made sharp. Give reason. (1)
5. Give one example of :- (1)
a) tetraatomic molecule b) triatomic molecule
6. The density of water is 1000 kg/m^3 . If the relative density of aluminium is 2.7. Calculate the density of aluminium in g/cm^3 . (2)
7. Name the phylum/division to which the following organisms belong: (2)
a) with pores all over the body that leads to a canal system.
b) with specialized vascular tissue, seeds develop inside the fruit.
c) have little segmentation, kidney like organ for excretion, a foot for locomotion.
d) three chambered heart, lungs or gills for respiration, lay eggs.
8. a) Write the electronic configuration of an atom of silicon .Also draw a schematic diagram of its atom showing the distribution of electrons in its shells. (2)
b) Explain the limitation of Thomson's model of atom.
9. Calculate the electricity bill amount for the month of 30 days, if 4 bulbs of 60W for 6 hours, (3)
3 tube lights of 50W for 8 hours, a T.V. of 100W for 4 hours, a refrigerator of 300W for 24 hours are used each day. The cost per unit is Rs. 2.50.
10. Calculate the mass of:- (3)
a) 0.5 moles of N atoms b) 6.023×10^{23} number of N_2 molecules
11. Give any three features of the phylum/division to which following organisms belong: (3)



a)

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b)