

Photo 1: qfjif

What is the melting point of the substance?

a) 110°C b) 90°C
c) 9°C d) 15°C

2. Which of the following acts as a garbage disposal system of the cell? [1]

a) Vacuole b) Lysosome
c) Peroxisome d) Golgi body

3. In which of the following cases of motion, the distance moved and the magnitude of displacement are equal? [1]

Photo 2: ihefio

a) The earth is revolving around the sun
 c) A car is moving on a straight road
 d) A car is moving in a circular path

4. Which of one of the following nutrients is not available in fertilizers. 101

a) Nitrogen
 b) Phosphorus
 c) Potassium
 d) Fluorine

5. Rhythmic contraction and relaxation throughout life are called 102

a) epithetials of lungs
 b) striated muscles of tongue
 c) striated muscles of heart
 d) striated muscles and transverse of ligams with the help

6. Which is among the following is concerned with the hydrocarbons and transverse of ligams with the help? 103

a) Smooth endoplasmic reticulum
 b) Lysosomes
 c) Rough endoplasmic reticulum
 d) Cytoplasm

7. Synthesis of iron ore: 104

a) Fe
 b) FeO
 c) Fe₂O₃
 d) Fe₃O₄

8. Beans-hold involuntary muscles fibres are found in: 105

a) arteries
 b) heart
 c) veins
 d) muscles

9. Three structures used three different containers (A) (B) and (C) of different shapes, for finding the loss in weight of an object when dipped in water. On dipping a solid sphere in these containers they would observe that the loss in weight is: 106

a) Maximum in (A)
 b) Maximum in (B)
 c) Same in all
 d) Maximum in (C)

10. A ball is dropped into the floor from a height of 20 m, it rebounds to a height of 10 m. If the ball is in contact with the floor for 0.1 seconds, what is the average upward acceleration? 107

a) 1.62 m/s^2
 b) 3.00 m/s^2
 c) 3.62 m/s^2
 d) 28.0 m/s^2

11. A compound of carbon, hydrogen and nitrogen contains these elements in the ratio 9 : 1 : 3.5. If its molecular mass is 106, what is the molecular formula? 108

a) $\text{C}_6\text{H}_{10}\text{N}_2$
 b) $\text{C}_6\text{H}_8\text{N}_2$
 c) $\text{C}_6\text{H}_8\text{N}_4$
 d) $\text{C}_6\text{H}_{12}\text{N}_4$

Photo 3:

30. Barry Farm was worried about heavy electricity bills to be paid. Their negligent Mohan suggested some easy and effective steps to reduce the same. Preeti mentioned he came as a waiter in Ram, as the consumption of electricity had reduced by 30 units and so he had the bill.

31. In what other aspects of life can this situation help?

32. What is the unit of energy?

33. < b>C. Why any other steps that you think Mohan might have suggested to Ram.

34. The velocity-time graph of a ball moving on a surface of the floor is as shown in the figure. Calculate the force acting on the ball, if mass of the ball is 100 g.

35. What is prokaryotic cell? Differentiate between prokaryotic cell & eukaryotic cell?

36. If you are provided with some vegetables to cook, we generally add salt to the vegetables during cooking process. After adding salt, vegetables releases water. What mechanism is responsible for this?

37. Differentiate between the difference between autotrophic and heterotrophic nutrition.

38. The weight of any person on the moon is about 1/6th times that on the earth. The force lifted by a man of 15 kg on the earth. What will be the maximum mass, which can be lifted by the same force applied by the person on the moon?

39. What are the differences between the mass of the object and its weight?

40. Draw a well-labelled diagram of a eukaryotic nucleus. How is it different from the nucleoid?

41. Draw a neat labelled diagram of an animal cell.

42. A piece of bread was cut into two equal halves and divided into two parts, A and B. Part A was heated strongly while part B was not heated. Dilute hydrochloric acid was added to both parts and evolution of gas was seen in both the cases. How will you identify the gas evolved?

43. Read the following text carefully and answer the questions that follow:

44. Given below is the diagrams of the human nervous system.

45. Label the part (A) and (B). (1)

46. What is the function of nervous tissue? (1)


47. Mention all the functions of nervous tissue? (1)

Photo 4: ieefhoh

What enables the animal to move rapidly in response to stimuli? (2)

38. Read the following text carefully and answer the questions that follow:

Poultry is the rearing of domesticated fowl (chickens, ducks, geese, turkey and some varieties of pigeon for their meat and eggs. Poultry farms of two types are found: one that breeds and layers. One is specialized meat-producing poultry birds while others are egg-laying poultry flocks. The tremendous rise in the availability of poultry products is called Silver Revolution.



i. What is the meaning of layers regarding poultry? (1)
ii. There are different breeds of hens, so give some information about broiler. (1)
iii. We know that different types of revolution regarding animal husbandry. So, what is the silver revolution explain? (2)


OR

There are different breeds of poultry birds. Give some examples of indigenous and exotic breeds of poultry birds. (2)

39. Read the following text carefully and answer the questions that follow:

Homogeneous mixtures are regarded as solutions. These are suspensions and colloidal sol.

The difference in their properties. In a suspension, the particles are large, their size is more than 10^3 cm whereas in a colloidal solution, it ranges between 10^1 cm to 10^3 cm . The two phases which constitute colloidal solutions are dispersed phase and dispersion medium. Based upon their nature, the colloidal solutions are classified into eight types. The mixture of non-reacting gases is always homogeneous irrespective of their nature. Therefore, it is not a colloidal solution.



i. Scattering of light occurs when a beam of light is passed through blood. Why? (1)
ii. What is Tyndall effect? (1)
iii. What is called colloidal solution? (2)

OR

Give an example of colloidal solution and identified their dispersed phase and dispersion medium? (2)

