

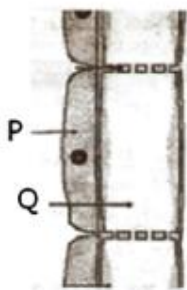


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### Section A

- Q.1 From where do plants acquire the following nutrients?  
(a) Nitrogen (b) Carbon
- Q.2 What is dispersed phase?
- Q.3 Define weight of an object?
- Q.4 Why G is called the Universal Constant?
- Q.5 What are weeds? Why should they be removed?
- Q.6 (a) What are chromosomes?  
(b) In which part of a cell it is found? State its function.
- Q.7 (a) Identify the type of plant tissue given below. Where in the stem of a plant would you find this tissue?  
(b) Label the parts marked 'P' and 'Q'.



- Q.8 What is the importance of law of gravitation?
- Q.9 What can you say about the motion of an object whose distance time graph is :  
(i) a straight line, parallel to the time axis  
(ii) a straight line passing through the origin making an angle from the time axis.
- Q.10 Can a body have constant speed and still be accelerating? Give an example
- Q.11 Calculate the acceleration produced in a body of mass 10 kg when 20N force is applied on it.
- Q.12 Which gas is called dry ice? Why?

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- Q.13 Classify the following as physical or chemical changes:
- (a) Cutting of Wood (b) Magnetising an iron bar  
(c) Burning of fuels (d) Rusting of iron.
- Q.14 How is compost prepared? How does not it differ from vermicomposting? What is the advantage of manure over fertiliser? (Give any two)
- Q.15 List six facilities that must be provided to cattle to ensure their good health and production of clean milk?
- Q.16 (a) Draw a labeled diagram of striated muscle fibre. (Two labeling)  
(b) Identify the tissue which is made up of these cells.  
(c) Name an organ that is made of this tissue.
- Q.17 Give reasons for the following:
- (a) The smell of sizzling food from the kitchen reaches you in the bedroom.  
(b) After your morning exercise you feel cold.  
(c) A gas exerts pressure on the walls of the container.
- Q.18 (a) Convert the following to Celsius scale (i) 300k (ii) 573k.  
(b) Convert the following to kelvin scale (i) 0°C (ii) 30°C.  
(c) What does the melting point of a solid indicate?
- Q.19 (a) List four differences between mass and weight.  
(b) Define pressure and write its S.I. unit.
- Q.20 List in tabular form any three differences between 'g' and 'G'.
- Q.21 What is uniform circular motion? How is uniform circular motion regarded as an accelerated motion? Give an example of such a motion.
- (b) pulling of a cart.  
(c) Sailor jumps out of the boat



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- Q.22 State the action and reaction in the following:
- (a) Moving rocket
- Q.23 (a) In the diagram given below identify the part marked Q and R
- (b) What are the substances that organelle P stores?
- (c) Mention one function of organelle Q and R.
- (d) What are cisterns?



- Q.24 How will you separate a mixture of two miscible liquids having difference in boiling points of less than  $25^{\circ}\text{C}$ . Describe with the help of a neat labeled diagram.
- Q.25 (a) When a motor car suddenly stops we fall forward . Why?
- (b) State Newton's  $1^{\text{st}}$  and  $2^{\text{nd}}$  law of motion.
- (c) A force of 5N gives a body of mass 'm' an acceleration of  $30/\text{s}^2$ , Calculate the mass of the body in grams.

### Section A

- Q.26 Sita, Geeta, Radha and Bimla were asked to select a plant material which would not give blue black color with iodine solution. Who did not select the right material?
- (a) Sita selected maize grains.                      (b) Geeta selected wheat grains.
- (c) Radha selected ground nut seeds.            (d) Bimla selected potato.
- Q.27 Deepak washed a few grains of tur dal in water. The water became yellow. He then added a few drops of HCL to the same test tube, the water turned pink in color. From the above test Deepak concluded that tur dal contains.
- (a) Proteins    (b) starch

(c) turmeric

(d) metanil yellow



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Q.28 The outer most layer in a cheek cell it's the :

(a) cell wall

(b) cell membrane

(c) cellulose

(d) Protoplasm

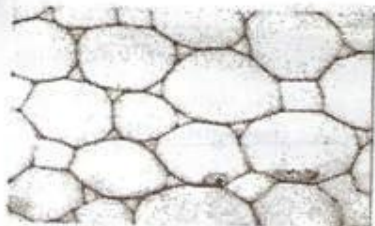
Q.29 Cells in an onion peel are arranged as shown in figure:



(a)



(b)



(c)



(d)

Q.30 In the cells of an onion peel the nucleus is seen on one side of the cell because of the :

(a) Presence of a large central vacuole.

(b) Presence of many large vacuoles.

(c) presence of many small vacuoles

(d) absence of vacuoles.

Q.31 To prepare a temporary mount of the cheek cells:

(a) Scrapings are taken from outer surface of the cheek.

(b) Scrapings are taken from the inner surface of the cheek.

(c) sediments are collected from a beaker after gargling.

(d) a mucous from the throat region is used.



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- Q.32 A boy heated a mixture of iron filings and sulphur in a hard glass test tube for sum time  
What is the color of the product obtained?
- (a) Grey (b) Blue  
(c ) Green (d) Yellow
- Q.33 The following four substances are added to water in four separate beakers and are stirred well milk, starch, common salt, sand. A clear and homogeneous solution will be obtained in case of :
- (a) Milk (b) Starch  
(c ) Common salt (d) Sand
- Q.34 On heating copper sulphate crystals in a hard test tube it is observed that:
- (a) The substance sublimes (b) Brown fumes are evolved  
(c ) a grey mass is formed. (d) A white residue is left.
- Q.35 Which of the following would you choose to determine the melting point of ice in your laboratory?
- (a) Dry crushed ice (b) Ice cubes  
(c ) ice added to water (d) Stab of ice
- Q.36 To prepare a colloidal solution of starch one should first:
- (a) add starch powder to boiling water.  
(b) add starch powder to cold water.  
(c ) heat starch powder and then add water  
(d) add a thin paste of starch powder to boiling water.
- Q.37 Which of the following characteristics of iron filings + sulphur powder is correct?
- (a) Both are heterogeneous  
(b) Both are homogeneous  
(c ) A mixture of iron filing and sulphur powder may be heterogeneous or homogeneous but a iron sulphide is always homogeneous.  
(d) Iron sulphide is heterogeneous but the mixture of iron filings and sulphur powder is homogeneous.



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Q.38 Which of the following techniques is used in separating ammonium chloride from a mixture of ammonium chloride, sand and sodium chloride?

- (a) Crystallization
- (b) Sedimentation
- (c) Filtration
- (d) Sublimation

Q.39 A beam of light is passed through salt solution sugar solution and starch solution. In which of the following the path of light will be visible?

- (a) Salt Solution
- (b) Starch solution only
- (c) Starch solution and sugar solution
- (d) salt solution and starch solution

Q.40 An iron nail was dipped in blue copper sulphate solution. After about an hour it was observed that:

- (A) a reddish brown layer deposits on the iron nail
- (b) a blue layer deposits on the iron nail
- (c) the solution turns red
- (d) a grey deposit is seen on the iron nail

Q.41 A thermometer has 20 equal divisions between  $90^{\circ}\text{C}$  and  $100^{\circ}\text{C}$  marks. A student while determining the boiling point of water finds that the mercury thread becomes stationary at the 18<sup>th</sup> mark above  $90^{\circ}\text{C}$ . He should record the boiling point of water as:

- (a)  $90.19^{\circ}\text{C}$
- (b)  $99.5^{\circ}\text{C}$
- (c)  $99^{\circ}\text{C}$
- (d)  $119^{\circ}\text{C}$

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