

FIRST TERMINAL EVALUATION 2017 BASIC SCIENCE

Standard : VIII

Time : 120 Minutes

Score : 60

Instructions

1. The total cool off time for Physics, Chemistry and Biology is 15 minutes. Read the questions carefully and understand them during this time.
2. Answers are to be written in the order, Physics, Chemistry and biology. The time for each section is 40 minutes. The answer books must be returned to the teacher after writing each subject.

PHYSICS

TIME : 40 Minutes

Total Score : 20

Write answer for any four questions only, from 1 to 5 maximum score 8

1. Find out the odd one in the group and explain what is the common factor in others
 - (a) Distance, Displacement, Velocity, Acceleration (1)
 - (b) mm, mg, cm, km (1)
 2. Read the following statement carefully and edit the underlined portion?
 - (a) Unit of speed is M/S (1)
 - (b) Unit of force is Newton (1)
 3. Iron piece of length 200cm and mass 3000g is given to you. Rewrite these measurement in to SI unit (2)
 4. We usually extinguish fire using water. But is it possible if petrol or diesel get fire? Why? (2)
 5. Consider 'K' as kerosine , 'S' as coloured saline water and 'W' as water
 - (a) If they all are taken in a bottle, how are they arranged?

W	K	S
S	W	K
K	S	W

Fig.1 Fig.2 Fig.3
- (b) On which of their quality did you select this answer? (1)
- (1)

Write the answer for any four questions only, from 6 to 10 (Total Score : 12)

6. Find the correct option from columns B and c which is suitable to the measurement in columns A (3)

A	B	C
Velocity	kg/m^3	Change in velocity/time
Density	m/s^2	Displacement /time
Acceleration	m^3	Mass/Volume
	m/s	distance/time

7. Classify the following in to contact and noncontact forces. (3)
- Mango falls down
 - A box is moved by pulling.
 - A nail is attracted towards amagnet
8. Write three precautions that a pedestrian should take to avoid road accident. (3)
9. A car is moving with velocity of 2 m/s. When the driver applied brake, it come to rest by 4 second. (1)
- What is the velocity of the car when it come to rest?
 - calculate the deceleration of the car
10. A teacher was sitting in a bus. Babu says teacher is at rest and Laila says the teacher is moving. But when we came to the class, the teacher says both of the them are correct. (1)
- who among them travelled with the teacher in the bus.
 - substantiate your answer?

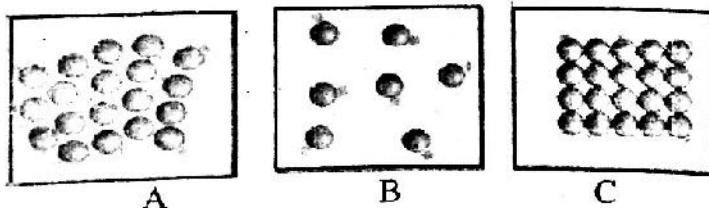
CHEMISTRY

Standard : VIII

Time: 120 Minutes

Attempt any three of the following questions from 1 to 4 (one mark each)

1. Molecular arrangements of solid, liquid and gas are depicted below.

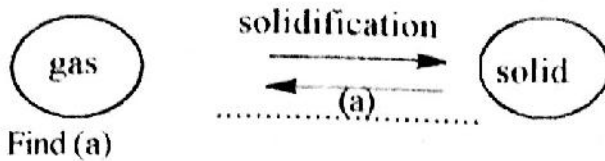


Identify the molecular arrangement of gas

2. Find out the correct statement from the following?
- Oxygen is a monoatomic molecule.
 - Chlorine is an example for a compound molecule.
 - Water splits into Hydrogen and Oxygen by passing electricity.
 - The element Chromium got its symbol from the name of a planet.

3. Which one is an example for polyatomic molecule?
 A. Hydrogen
 B. Sulphur
 C. Oxygen
 D. Helium

4.



1 x 3 = 3

Attempt any four of the following questions from five to nine (two mark each)

5. Pick out the correct changes during the transformation of ice to water
 A. Possibility of diffusion increases
 B. Energy of particles decreases
 C. Distance between the particles decreases
 D. Attraction between the particles decreases
6. Symbol of Chlorine is Cl. Represent two Chlorine atoms and one Chlorine molecule by using this symbol?
7. Complete the table.

Element	Basis of Naming	Symbol
Copper	Latin name	(A)
(B)	Name of a scientist	Md

8. Identify the reactants and products from the chemical reaction given
 $\text{NaOH} + \text{H}_2\text{SO}_4 \longrightarrow \text{Na}_2\text{SO}_4 + \text{H}_2\text{O}$
9. Which method is used to separate the mixture on the basis of the difference in rate of adsorption of components? Write an example for this type of separation. 4 x 2 = 8

Attempt any three of the following questions from 10 to 13 (three marks each)

10. Samples of some molecules are given below.

5NO ₂	NH ₃	5HNO ₃	7KCl
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- a) Which sample has more number of atoms? 1
- b) Arrange the samples in the increasing order of number of atoms? 2
- 11.
- a) Write the name of this apparatus? 1
- b) Can we adopt this method for the separation of Petrol and Kerosine? Justify your answer. 2

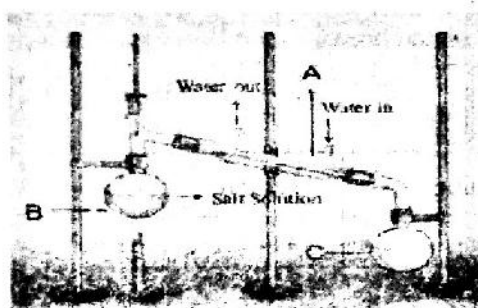


12. Match with column A from column B and C of the given table.

4

A	B	C
Mixture	Properties of components	Method of separation
1. Ethanol+Methanol	Mass difference	Magnetic separation
2. Butter from Curd	Magnetic property	Fractional distillation
3. Aluminium powder	Narrow difference in and Iron powder	Centrifugation boiling points
	Chromatography	

13. Distillation of Salt solution is pictured below:



a) Identify the apparatus A 1

b) Name the products B and C after distillation 2

BIOLOGY

TIME : 40 Minutes

Total Score : 20

Answer all questions from 1 to 3. Each question carries 1 score

1. Find out the correct statement

- (a) Protoplasm is formed by all materials in the cell including cytoplasm and plasma membrane.
- (b) Protoplasm is formed by all materials inside the plasma membrane.
- (c) Protoplasm is cytoplasm inside the cell, except the nucleus.
- (d) Protoplasm and cytoplasm are same materials.

2. Complete the following

Atom → Molecule → → Cell → Tissue

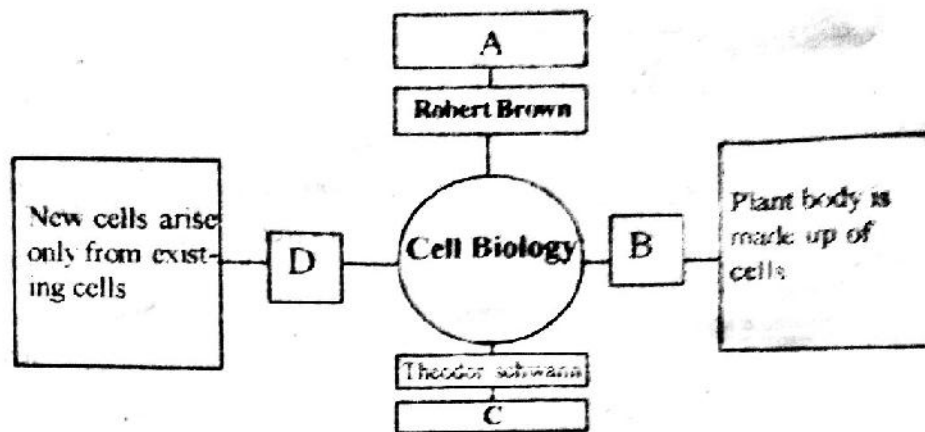
3. Some steps in preparing a plant section for microscopic observation are given below:

- (A) Keep the specimen in water for a while.
- (B) Add Glycerine to the section

Give reasons for the above actions.

Answer any 4 from questions 4 to 8. Each question carries 2 score.

4. Complete the following illustration.



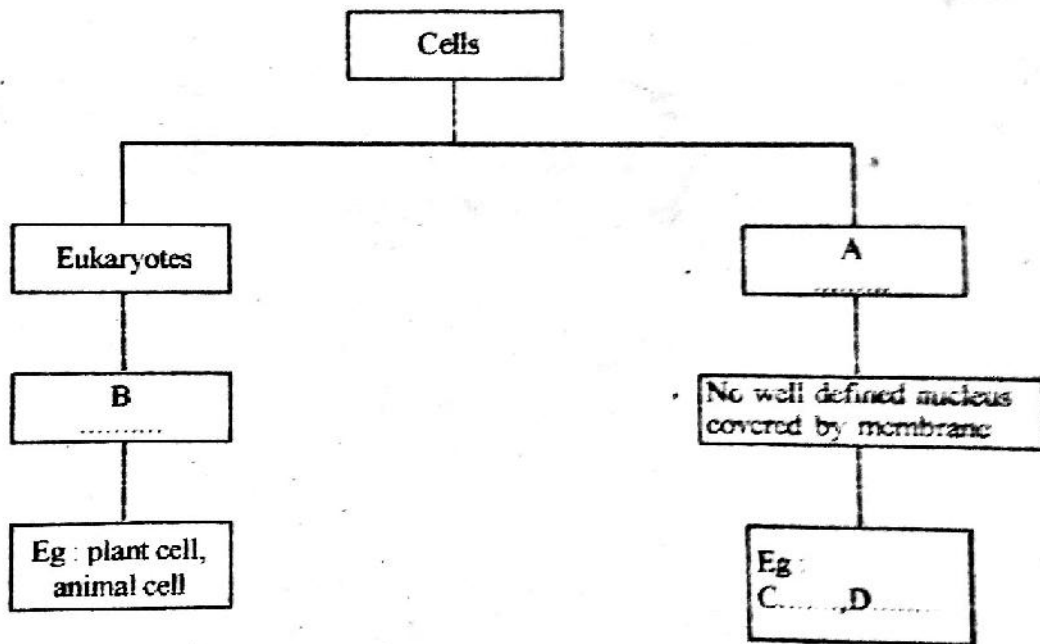
5. Which are the vascular tissues of plants? Write the function of each.

6. Write the use of the following parts in a compound microscope.

(a) Eye piece

(b) Plane mirror

7. Complete the concept map.



8. Specific cells found at the growing tips of plants help in plant growth.

a) Name these cells.

b) Write any two features of these cells.

Answer any 3 from questions 9 to 12. Each question carries 3 Score.

9 Re-arrange columns B and C according to column A.

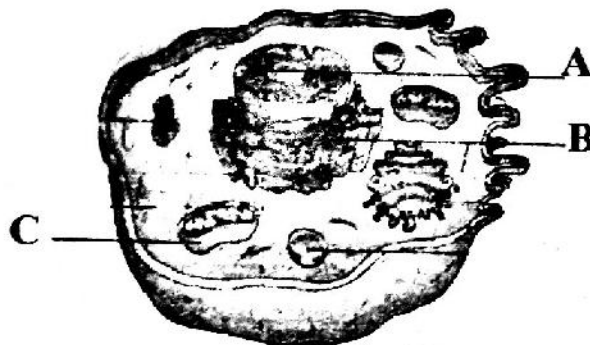
A	B	C
Sclerenchyma	<ul style="list-style-type: none"> ▪ Cells with simple structure ▪ Cells are thick only at the corners 	<ul style="list-style-type: none"> ▪ Help in the conduction of water
Parenchyma	<ul style="list-style-type: none"> ▪ Cells are uniformly thick all over the cell wall 	<ul style="list-style-type: none"> ▪ Provides strength and support to the plant parts
Collenchyma	<ul style="list-style-type: none"> ▪ Thin walled or thick walled cells 	<ul style="list-style-type: none"> ▪ Seen in the soft parts of plant ▪ Provides flexibility and support to plant parts

10. Cartilage and blood are connective tissues.

(a) Why the name "connective tissue" is given to them?

(b) Write another example for connective tissue. What is its function?

11. Observe the picture.



(a) Identify A, B and C.

(b) Write their functions.

12. Name the tissues that carry out the following functions.

(a) Covers and protect our body.

(b) Controls and co-ordinates physiological function.

(c) Enable the movement of the body.