

Science class test -

FM - 20.

I. Choose the correct option and answer the questions:

1. When ice is heated, it changes to water and water on further heating gets converted to steam. What happens when steam is condensed?

- (a) Gaseous phase changes to liquid phase
- (b) No new substance is formed
- (c) A new substance is formed
- (d) Both (a) and (b)

2. Glowing of an electric bulb is a _____ change.

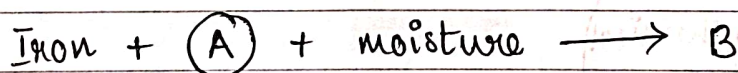
- (a) Physical
- (b) Chemical
- (c) Both (a) & (b)
- (d) None of them

3. Complete the analogy.

Electrolysis : Chemical change :: Crystallization : _____

- (a) Thermal change
- (b) Physical change
- (c) Neutralisation
- (d) Periodic change

4. Complete the following equation:



- (a) A - Oxygen, B - Carbon dioxide
- (b) A - Water, B - Oxygen
- (c) A - Oxygen, B - Rust (Iron oxide)
- (d) A - Carbon dioxide, B - Oxygen

5.) Assertion : Evaporation and melting are endothermic changes.

Reason : In both evaporation and melting heat is absorbed from the surroundings.

6.) Two changes are stated below

- (i.) A piece of magnesium gives out bright flames when burnt.
- (ii.) A piece of iron glows red when heated strongly.

Which of these is a chemical change?

- (a) (i) only (b) (ii) only (c) Both (i) & (ii) (d) Neither (i) or (ii)

7.) When iron pieces are added to a blue copper sulphate solution, the colour of copper sulphate changes to —

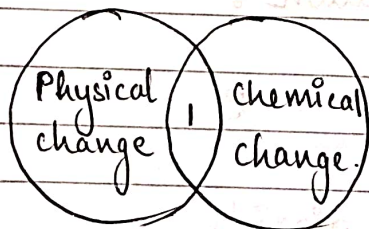
- (a) Brown (b) Green (c) Blue Black (d) Red.

8.) Identify the chemical changes in the list:

- (i) Ripening of fruits
- (ii) Fermentation of grapes
- (iii) Magnetization of iron.

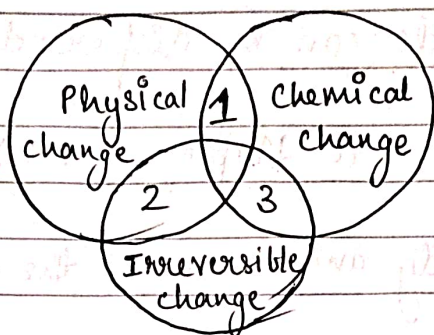
- (a) Only (i) and (ii) (b) Only (ii) and (iii) (c) Only (i) and (iii)
(d) (i), (ii), (iii)

9.)



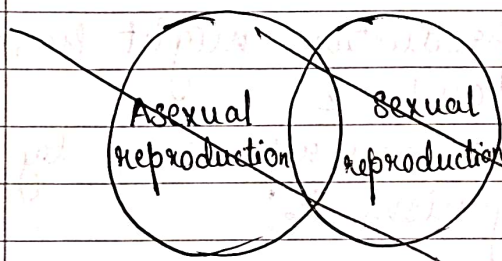
- (a) Baking of bread (b) Sharpening of pencil
(c) Spoiling of food (d) Burning of LPG

10.)



- (a) 1- Occurrence of new moon 2- Growth of plants 3- Falling of trees.
- (b) 1- Cutting of paper 2- Baking of cake 3- Occurrence of eclipse.
- (c) 1- Burning of candle 2- Falling of trees 3- Inflation of tyre.
- (d) 1- Burning of LPG 2- Breaking of egg 3- Burning of firecrackers.

11.)

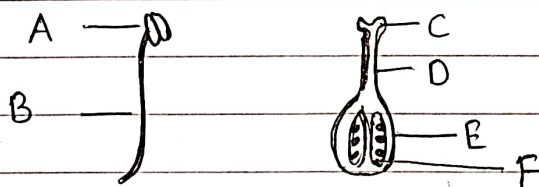


Identify the plant.

(a)

11.)

Label the parts A, B, C, D, E and F (3)



12.)

Which of the following helps in asexual reproduction in a potato plant?

- (a) Flowers (b) Leaves (c) Eyes of potato (d) Cutting of its stem

13) Which of the following seeds can be dispersed by animals?

- (a) Coconut (b) Drumstick (c) Maple (d) Xanthium.

II) Read the following case study and answer the questions: (5)

Organism 'X' is used in baking industry. Addition of X in the bread dough allows it to rise and increase in volume. The bread formed is light and spongy. If this bread is left in the open organism 'Y' grows on it. A researcher took samples of 'X' and 'Y' on slides 1 and 2 respectively and observed their growth under the microscope.

- ① Identify organism X. (1)
- ② Identify organism Y. (1)
- ③ What type of asexual reproduction might have been observed on slide 1 and 2. (2)
- ④ Name any one plant ~~can~~ that can reproduce by the same method and organism Y. (1)