

SATISH CHAMDRA MEMORIAL SCHOOL

PRACTICE TEST

CLASS - VII

Subject – Science

FM – 20

Time – 40 mins

For the questions 1 – 10 choose the answer from the options given below.

- (a) Both Assertion and Reason are true and Reason is the correct explanation of Assertion.
 - (b) Both Assertion and Reason are true but Reason is not the correct explanation of Assertion.
 - (c) Assertion is true but Reason is false.
 - (d) Assertion is false but Reason is true.
- 1) Assertion (A) : Change of water from liquid to steam on heating is a physical change.
Reason (R) : The temperature during heating remains the same and the change involves a change in composition.
 - 2) Assertion (A) : Burning of a candle is a physical change.
Reason (R) : The products formed by burning a candle cannot be easily converted back to original candle.
 - 3) Assertion (A): Evolution of gas is confirmed sign of physical change.
Reason (R) : Hydrogen gas is evolved on reaction of acids on metals.
 - 4) Assertion (A) : Blue colour of copper sulphate solution changes on addition of piece of zinc.

Reason (R) : Zinc is more reactive than copper and lies above copper in the metal activity series.

- 5) Assertion (A) : Coating an iron sheet with a layer of zinc is called galvanisation.

Reason (R) : The process which converts iron to iron oxide in the presence of moisture and air is called rusting.

- 6) Assertion (A) : Breaking of a bone china plate is a physical change.

Reason (R) : When a bone china plate breaks, the pieces cannot be joined to get back the original plate.

- 7) Assertion (A) : Carbon dioxide + lime water gives calcium carbonate + water.

Reason (R) : the change in which one or more new substances are formed is called a physical change.

- 8) Assertion (A) : Yeast grows and multiplies every few hours if sufficient nutrients are available.

Reason (R): When water and nutrients are available algae grow and multiply rapidly through budding.

- 9) Assertion (A) : Plants raised by vegetative propagation can bear flower and seed earlier than those produced from seeds.

Reason (R) : Plants which have lost the capacity to bear usable seeds, can propagate through vegetative propagation.

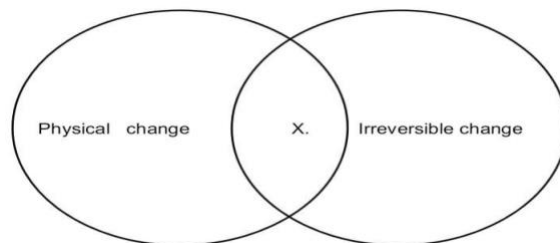
- 10) Assertion (A) : Spore formation is a very common method of reproduction in bread mould.

Reason (R) : Spores have a thin wall so they germinate quickly to give rise to a new plant.

Choose the correct option :

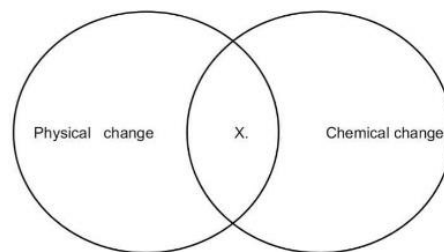
11) Identify X with reference to the figure

- a) Baking of bread
- b) Cooking of food
- c) Burning of candle
- d) Grating of cheese



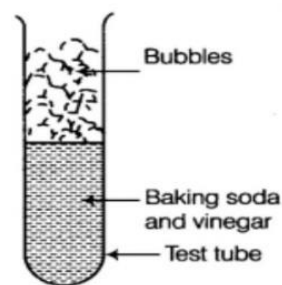
12) Identify X with reference to the figure

- a) Slicing of bread
- b) Corrosion of metals
- c) Burning of candle
- d) Chopping of vegetables



13) Bubbles are produced when vinegar is added to baking soda.
State the reason.

- a) Chemical change takes place
- b) Formation of carbon dioxide gas
- c) Formation of hydrogen gas
- d) Formation of oxygen gas



14) Magnesium ribbon burns in air and changes to white substance Y.
When Y dissolves in water, it forms Z. Identify Y and Z and the type of change take place?

- a) Magnesium oxide, magnesium hydroxide, physical change
 - b) Magnesium oxide, magnesium hydroxide, chemical change
 - c) Magnesium hydroxide, magnesium carbonate, chemical change
 - d) Magnesium oxide, magnesium carbonate, chemical change
- 15) Mention type of change takes place in evaporation of petrol and state whether the energy is evolved or absorbed during the change?
- a) Physical change, no change in energy takes place
 - b) Physical change, energy is absorbed
 - c) Chemical change, energy is evolved
 - d) Physical change, energy is evolved
- 16) Pollen grain : Anther :: _____ : Ovary
- a) Zygote
 - b) Embryo
 - c) Ovule
 - d) Pollen tube
- 17) Root system : Plant growth :: _____ : Plant reproduction
- a) Leaf system
 - b) Stem system
 - c) Floral system
 - d) Seed system
- 18) Pollination → Fertilization :: Seed germination → _____
- a) Seedling growth
 - b) Flower blooming

- c) Root development
- d) Leaf formation

19) Respiration : Chemical change :: _____ : Physical change

- a) Cow dung to bio-gas
- b) Filling up a balloon with hot air
- c) Tarnishing of silver
- d) photosynthesis

20) _____ : Endothermic change :: Burning of wood : Exothermic change

- a) Evaporation and melting
- b) Condensation and melting
- c) Condensation and freezing
- d) Evaporation and freezing