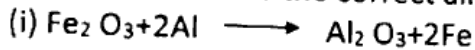


Instructions :

1. All questions are compulsory.
2. Question no. 1 to 4 are objective type. Each question carries 1×5=5 marks. total marks are 5×4=20
3. Internal options are given in question no. 5 to 22.
4. Marks of each questions are indicated against it.
5. Answer question no. 5 to 9 in about 30 words each.
6. Answer question no. 10 to 14 in about 75 words each.
7. Answer question no. 15 to 19 in about 120 words each.
8. Answer question no. 20 to 22 in about 150 words each.
9. Draw neat and clean diagram wherever required.

Q.1 Choose and write the correct all tentative ✓



The above reaction is an example of –

- (a) Combination reaction (b) Double displacement reaction  
(b) decomposition reaction (d) displacement reaction ✓
- (ii) The breakdown of pyruvate to give carbon - di - oxide, water and energy take place in  
(a) Cytoplasm (b) ✓ mitochondria (c) Chloroplast (d) nucleus
- (iii) Which one of the following material can-not be used to make a lens.  
(a) Wetter (b) glass (c) ✓ clay (d) plastic
- (iv) Which of the following terms does not represent electrical power in a circuit  
(a)  $I^2R$  (b)  $VI$  (c)  $IR^2$  ✓ (d)  $V^2/R$
- (v) Which of the following constitute a food chain-  
(a) Grass, wheat and mango (b) Grass, goat and human ✓  
(c) Gott, cow and elephant (d) Grass, fish, goat

Q.2 Fill in the blanks -

- (i) .....is the fixed number of water molecule present in one formula of unit of a salt.
- (ii) Mendeleev classified the elements on the basis of.....
- (iii) The gap between two neurons is called.....
- (iv) The angle between two lateral faces of prism is called.....
- (v) Full name of UNEP is.....

Q.3 Match the column –

- |                         |                        |
|-------------------------|------------------------|
| (i) Gibberlin           | (a) Grager john Mendel |
| (ii) Lustrous non-metal | (b) Human Eye          |
| (iii) Nephron           | (c) Plant hormone      |
| (iv) Law of Inheritance | (d) Unit of kidney     |

2(e) Iodine

(v) Iris

Q.4 Answers in the one word/sentence:-

- (i) ✓ What is the common name of  $\text{CaO Cl}_2$  ?
- (ii) Which instrument is used to measure the blood pressure in human ?
- (iii) ✓ What are the preserved traces of living organisms ?
- (iv) Define the unit cell of current
- (v) ✓ What are the 3R to save the environment ?

Q.5 Oil and fat containing food items are flushed with nitrogen Why ?

OR

What is displacement reaction ?

Q.6 What is modern periodic law ?

OR

What are period and group in modern periodic table ?

Q.7 Write two differences between sexual and asexual reproduction ?

OR

Write two advantages of vegetative propagation.

Q.8 What factors could lead to the rise of a new species.

OR

What are inherited traits ?

Q.9 Find the power of a concave lens of focal length 2m

OR

Write two uses of convex mirror.

Q.10 What do you mean by precipitation reaction ? explain by giving example.

OR

Define oxidation and reduction reaction with example.

Q.11 Why do stars twinkles ? <http://www.mpboardonline.com>

OR

Explain causes and correction of myopia with the help of diagram.

Q.12 What is electromagnetic inductions ?

OR

What is the function of an earth wire why is it necessary to earth metallic appliance.

Q.13 Draw a well labeled diagram of electric motor.

OR

State the principle of an electric generator.

Q.14 What are the disadvantages of fossil fuel.

OR

Why is biogas is an excellent fuel ?

Q.15 Write the structural formula of following compounds Chloropropane, Propanol, Ethanoic acid, propanil

OR

Write the name, formula and structure of four saturated compounds of carbon.

Q.16 What is Ph scale. Write any two importance of Ph.

OR

Write two uses of each bleaching powder and baking soda.

Q.17 Write any four difference between aerobic and anaerobic respiration.

OR

Draw a well labelled diagram of human digestive system.

Q.18 Draw a labeled diagram of reflex arc.

OR

Write the function of following

animal hormone, growth hormone, insulin, adrenalin, thyroxin.

Q.19 (a) How much work is done in moving a charge of 2C across two points having a potential difference 12V ?

(b) On what factors does the resistance of a conductor depend ?

OR

Draw a schematic diagram of a circuit Consisting of a battery of three cells of 2V each. a  $5\Omega$  resistor, an  $8\Omega$  resistor and  $12\Omega$  resistor and a plug key, all connected in series.

Q.20 Explain electrolytic refining of copper with the help of diagram.

OR

Write the differences between the metal and not metal on the basis of 3 physical and 2 chemical properties.

Q.21 (a) What is the importance of DNA copying in reproduction ?

(b) Explain budding in hydra with example.

OR

Draw a labelled diagram of the longitudinal section of a flower.

Q.22 Write the position, size and nature of the image in concave mirror with the help of ray diagram when object is placed- (i) at infinity (ii) at center of curvature

OR

(i) Write lens formula.

(ii) Write the law of refraction.

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