

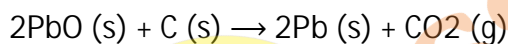
Q1. Which of the following statement(s) is/are CORRECT?

- I. Bakelite is a good conductor of heat.
 - II. Bakelite is a poor conductor of electricity.
 - III. Bakelite can be softened by heating.
- (a) Only I and II
 - (b) Only I and III
 - (c) Only II
 - (d) All I, II and III

Q2. Which of the following can be beaten and converted into thin sheets?

- (a) Zinc
- (b) Phosphorus
- (c) Sulphur
- (d) Oxygen

Q3. Which of the statement(s) about the reaction given below is/are INCORRECT?



- I. Lead is getting reduced.
 - II. Carbon is getting reduced.
 - III. Lead oxide is getting reduced.
- (a) Only I and II
 - (b) Only I and III
 - (c) Only II and III
 - (d) All I, II and III

Q4. If an atom has atomic number 10 and mass number 23, then what will be the number of protons and neutrons in an atom respectively?

- (a) 10, 10
- (b) 10, 23
- (c) 13, 10
- (d) 10, 13

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Q5. Which of the following statement(s) is/are INCORRECT?

- I. Alkenes are fairly unreactive.
- II. Alkenes burn with blue flame.
- III. Alkanes burn with yellow flame.

- (a) Only I and II
- (b) Only I and III
- (c) Only II and III
- (d) All I, II and III

Q6. Which of the following statements are CORRECT?

- I. Ethanol is a good solvent for organic compounds.
- II. Boiling and melting points of ethanol are low with respect to water.
- III. Ethanol is used tincture iodine.

- (a) Only I and II
- (b) Only I and III
- (c) Only II and III
- (d) All I, II and III

Q7. If the acceleration due to gravity on the surface of earth is g , then the acceleration due to gravity on the surface of a planet whose mass is same as that of earth and radius is half as that of earth is _____.

- (a) $2g$
- (b) $g/4$
- (c) $g/2$
- (d) $4g$

Q8. The relative density of a substance is the _____.

- (a) ratio of its density to the density of water
- (b) ratio of the density of water to its density
- (c) product of the density of water to its density
- (d) ratio of the volume of water to its volume

Q9. What is Inertia?

- (a) Tendency to resist change in the current state
- (b) Tendency to impart acceleration to a body
- (c) Tendency to bring a body to rest
- (d) Tendency to change its current state

Q10. Why does a fountain pen leak in aeroplane flying at a height?

- (a) Because of reduced viscosity of the ink in the pen
- (b) Because of increased viscosity of the ink in the pen
- (c) Because of higher atmospheric pressure outside the pen
- (d) Because of lower atmospheric pressure outside the pen

Q11. Which of the following statement(s) is/are CORRECT?

- I. Acids are sour in taste and generate H^+ ions.
 - II. Acids are sour in taste and generate OH^- ions.
 - III. Bases are bitter in taste and generate OH^- ions.
- (a) Only I and III
(b) Only I and II
(c) Only II and III
(d) All I, II and III

Q12. Metals are generally _____.

- I. Ductile
 - II. Malleable
 - III. Poor conductors of heat
- (a) Only I and II
(b) Only I and III
(c) Only II and III
(d) All I, II and III

Q13. Which of the following statement(s) about acids is/are CORRECT?

- I. They change the color of red litmus to blue.
 - II. They change the color of blue litmus to red.
 - III. They have pH value less than 7.
- (a) Only I and III
(b) Only II and III
(c) Only I
(d) Only II

Q14. In which of the following, Nylon is used?

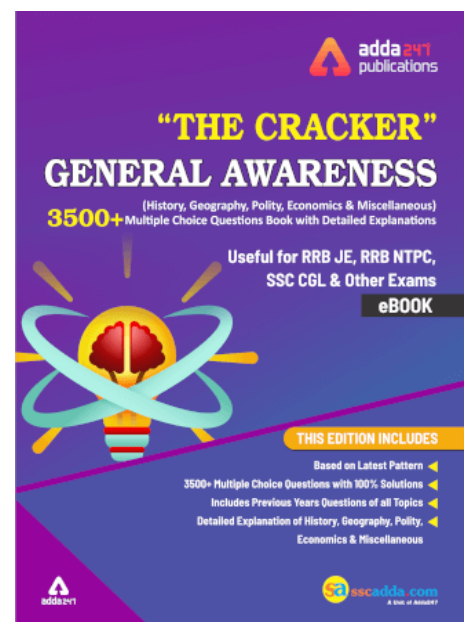
- (a) Sleeping bags
(b) Parachute
(c) Toothbrush
(d) All options are correct

Q15. What is nature of pH of Milk?

- (a) Slightly Acidic
(b) Slightly Basic
(c) Highly Acidic
(d) Highly Basic

Q16. The rhythmic contraction of the lining of muscles of canal to push the food along the gut is called _____.

- (a) Peristalsis
(b) Facilitation
(c) Guttation
(d) No option is correct



Q17. Gaseous exchange takes place in leaves through tiny pores for the purpose of photosynthesis. What are these pores?

- (a) Chloroplast
- (b) Stomata
- (c) Chlorophyll
- (d) Vacuole

Q18. Other name of Platelets is?

- (a) Leucocytes
- (b) Erythrocytes
- (c) Lymphocytes
- (d) Thrombocytes

Q19. Which of the following is not a vector quantity?

- (a) Displacement
- (b) Velocity
- (c) Force
- (d) Volume

Q20. A pendulum clock can run faster in-

- (a) Summer
- (b) Winter
- (c) Spring season
- (d) Rainy season

Q21. The principle reason why it is better to have two eyes than one is that:

- (a) By having two eyes we can distinguish colour easily
- (b) By having two eyes we can easily see in the dark as well in dim light
- (c) It gives a man a type of vision known as mosaic vision
- (d) It enhances distance and depth perception in us

Q22. Direct viewing of sun during total solar eclipse causes irreversible damage to eyes. The retinal burn is caused by which one of the following components of the sun rays?

- (a) Heat
- (b) Rainbow light
- (c) Ultra-violet light
- (d) Infra-red light

Q23. The sun and the moon appear elliptical near the horizon because of :

- (a) Refraction
- (b) Optical illusion
- (c) Interference phenomenon
- (d) Their actual shape

Q24. Photosynthesis using the invisible part of the sunlight is done by some-

- (a) Trees
- (b) Algae
- (c) Bacteria
- (d) Fungi

Q25. In a car battery, electrolyte substance used is-

- (a) Hydrochloric acid
- (b) Sulphuric acid
- (c) Nitric acid
- (d) Distilled water

Q26. Milk openly placed for sometime becomes sour due to-

- (a) Carbonic acid
- (b) Lactic acid
- (c) Citric acid
- (d) Acetic acid

Q27. Why do the desert plants take up the carbon dioxide for photosynthesis at night?

- (a) To prevent water loss
- (b) To enhance carbon absorption
- (c) To release excess oxygen
- (d) No option is correct

Q28. By which process substance like carbon dioxide or oxygen can move across the cell membrane?

- (a) Plasmolysis
- (b) Sedimentation
- (c) Diffusion
- (d) Transpiration

Q29. The transport of soluble products of photosynthesis is called _____.

- (a) Transpiration
- (b) Translocation
- (c) Transportation
- (d) Concentration

Q30. Which feature of the cell allows or permits the entry and exit of some materials in and out of the cell?

- (a) Cytoplasm
- (b) Protoplasm
- (c) Cell wall
- (d) Plasma membrane

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