

13. Which of the following is known as “Wood alcohol”?
- A. Chloromethane
 - B. Ethyl acetate
 - C. Formic acid
 - D. Methanol
14. What is the reason behind food chains generally having 3-4 Trophic Levels?
- A. Decreasing Organisms at each level
 - B. Increasing Number of Organisms at each level
 - C. Decreasing Energy at each level
 - D. Similar Energy at each level
15. Which of the following is also known as Galena?
- A. Lead sulphate
 - B. Lead oxide
 - C. Lead sulphide
 - D. Calcium sulphate

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Page 3 of 62

16. _____ gas will have the highest rate of diffusion.
- A. O₂
 - B. H₂S
 - C. CO₂
 - D. NH₃
17. Which of the following is used in making the wire of a flash bulb?
- A. Copper
 - B. Silver
 - C. Tungsten
 - D. Magnesium
18. Beriberi is caused by deficiency of:
- A. Vitamin B3
 - B. Vitamin B12
 - C. Vitamin B6
 - D. Vitamin B1

25. The major component of honey is_____

- A. Glucose
- B. Sucrose
- C. Maltose
- D. Fructose

26. Which acid is used in car batteries?

- A. Nitric acid
- B. Hydrochloric acid
- C. Carbonic acid
- D. Sulphuric acid

27. Biosphere refers to

- A. The part of ocean inhabited by plants and animals
- B. The portion of the earth, including the oceans, the land, the soil and the atmosphere inhabited by living organisms
- C. The atmosphere surrounding the living organisms
- D. The area of the land inhabited by living organisms

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Page 5 of 62

28. Which of the following equations represents Pressure in Physics?

- A. Mass / Acceleration
- B. Force / Area
- C. Mass $\times$ Acceleration
- D. Force $\times$ Area

29. What is the chemical formula of Quick Lime?

- A. CaCO_3
- B. CaO
- C. CaOCl_2
- D. CaSO_4

30. The most malleable metal is_____.

- A. Copper
- B. Silver
- C. Iron
- D. Gold

49. Which of the following is a mixture of Carbon Monoxide and Hydrogen?

- A. Dry Ice
- B. Water Gas
- C. Tear Gas
- D. Aqua Regia

50. Which of the following is also called the First Law of Thermodynamics?

- A. Boyle's Law
- B. Law of Conservation of Energy
- C. Charles's Law
- D. Law of Conservation of Mass

51. 'Leukopenia' is an abnormal_____.

- A. Increase in white blood cells
- B. Decrease in red blood cells
- C. Increase in red blood cells
- D. Decrease in white blood cells

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Page 9 of 62

52. Albert Einstein received the Nobel Prize for Physics in the year 1921 for his work on_____.

- A. Mass energy equivalence given by $E=mc^2$
- B. Hydrogen Atom
- C. Theory of Relativity
- D. Photoelectric effect

53. When light travels from a denser medium to a rarer medium, what is the effect on its speed?

- A. Increases
- B. No change
- C. Decreases
- D. Decreases and then increases

54. Which of the following is NOT unicellular?

- A. Amoeba
- B. Spirogyra
- C. Plasmodium
- D. Paramecium

- Which of the following is the largest artery of the human body?
 - A. Pulmonary Artery
 - B. Aorta
 - C. Coronary Artery
 - D. Renal Artery
- Which of the given options is known as a hard substance?
 - A. Fullerenes
 - B. Graphite
 - C. Silicon
 - D. Diamond
- Which one of the following is used as a catalyst in the hydrogenation of vegetable oils?
 - A. Iron
 - B. Zinc
 - C. Nickel
 - D. Aluminum

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Page 13 of 62

- Name the technique by which seawater changed into portable water.
 - A. Distillation
 - B. Decantation
 - C. Ion Exchange
 - D. Desalination
- What is the reason behind the hardness of water?
 - A. Due to chlorides and sulphates
 - B. Due to magnesium bicarbonate
 - C. Due to calcium bicarbonate sulphates
 - D. All of the above
- What is the name of the double membrane sac that protects the human heart?
 - A. Pleura
 - B. Pericardium
 - C. Epicardium
 - D. None of the above

- In which of the following organ in the human body does the fertilisation process occur?
 - A. Uterus
 - B. Ovary
 - C. Vagina
 - D. Fallopian Tube
- Which of the following function does not take place in absence of ribosome in a cell?
 - A. Respiration
 - B. Excretion
 - C. Protein Synthesis
 - D. Carbohydrates Synthesis
- Which of the following cell organelles form the lysosome?
 - A. Nucleus
 - B. Endoplasmic Reticulum
 - C. Ribosome
 - D. Golgi bodies

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Page 17 of 62

- In which of the following class are prokaryotes placed?
 - A. Monera
 - B. Protista
 - C. Arthropoda
 - D. Mollusca
- The majority of the water from the indigestible food is absorbed in the _____.
 - A. Stomach
 - B. Food Pipe
 - C. Large Intestine
 - D. Liver
- Which of the following organs is affected by the illness Cirrhosis?
 - A. Kidney
 - B. Liver
 - C. Pancreas
 - D. Small Intestine

- Silver gets corroded due to the presence of which of the following compounds in air?
 - A. Oxygen
 - B. Hydrogen Sulphide
 - C. Carbon dioxide
 - D. Nitrous Oxide
- Which one of the following chemicals are commonly used by farmers to destroy weeds?
 - A. DDT
 - B. Methyl Bromide
 - C. 2,4 – Dichlorophenoxy acetic acid
 - D. Malathion
- Which one of the following polymeric materials is used for making bullet proof jacket?
 - A. Nylon -6, 6
 - B. Kevlar
 - C. Rayon
 - D. Dacron

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Page 33 of 62

- Which of the gas is not Known as a greenhouse gas?
 - A. Methane
 - B. Nitrous oxide
 - C. Carbon dioxide
 - D. Hydrogen
- Which of the following organisms does not fit into the Cell Theory?
 - A. Bacteria
 - B. Fungi
 - C. Virus
 - D. Plants
- What is the effect of antigens on an ill person?
 - A. It increases the production of WBC.
 - B. It increases the production of antibodies
 - C. It increases the production of anti-serum against bacteria.
 - D. It prevents the growth of bacteria.

- Oysters belong to the phylum _____.
A. Arthropoda
B. Annelida
C. Mollusca
D. Platyhelminthes
- In the human body, fats are stored in which of the following?
A. Epidermis
B. Adipose Tissue
C. Liver
D. Epithelium
- Which of the following is NOT a component of human Blood?
A. Erythrocytes
B. Leucocytes
C. Thrombocytes
D. Mycoplasma

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Page 40 of 62

- Which of the following is NOT correctly matched?
A. Vitamin B6 ----- Pyridoxine
B. Vitamin C ----- Ascorbic Acid
C. Vitamin E ----- Alpha Tocopherol
D. Vitamin D ----- Phylloquinone
- Which Vitamin deficiency causes the disease Pernicious Anaemia?
A. Vitamin – A
B. Vitamin – D
C. Vitamin – B-12
D. Vitamin – C
- Which of the following is the deficiency of Vitamin-B3?
A. Night blindness
B. Marasmus
C. Pellagra
D. Rickets

- The soft Silvery Metallic element that ionizes easily when heated or exposed to light and is present in atomic clocks is –
 - A. Californium
 - B. Selenium
 - C. Cesium
 - D. Molybdenum
- Which of the following elements is a liquid at room temperature?
 - A. Phosphorous
 - B. Mercury
 - C. Sodium
 - D. Aluminum
- Which of the following statements is false?
 - A. Radon is obtained from the decay of radium.
 - B. Helium is an inert gas.
 - C. Xenon is the most reactive among the rare gases.
 - D. The most abundant rare gas found in the atmosphere is Radon.

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Page 41 of 62

- Air bladder in Fish acts as –
 - A. Accessory respiratory organ
 - B. Hydrostatic organ
 - C. Both accessory as well as hydrostatic respiratory organ
 - D. Primary respiratory organ
- Which among the following living beings has a respiratory organ but does not have a brain?
 - A. Crab
 - B. Starfish
 - C. Jelly fish
 - D. Silver fish
- In which of the following part of the cell does the pyruvic acid is broken down into carbon dioxide, water and energy?
 - A. Cytoplasm
 - B. Mitochondria
 - C. Chloroplast
 - D. Nucleus

- Which of the following forces holds protons and neutrons inside the nucleus of an atom?
 - A. Gravitational Force
 - B. Electromagnetic Force
 - C. Strong Nuclear Force
 - D. Weak Nuclear Force
- What happens to your weight when you are in a lift which goes down?
 - A. Decreases
 - B. Increases
 - C. Decreases and then increases
 - D. Increases and then decreases
- Which of the following is not an ore of aluminium?
 - A. Dolomite
 - B. Bauxite
 - C. Feldspar
 - D. Cryolite

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Page 44 of 62

- Momentum of an object depends on which factors?
 1. Mass of the object
 2. Speed of the object
 3. Volume of the object
 - A. 1 only
 - B. 1 and 2 only
 - C. 2 and 3 only
 - D. 1,2 and 3 only
- Which of the following is true regarding the periodic table?
 - A. As we move down the group the size of an atom decreases
 - B. As we move across the table, the size of an atom increases
 - C. As we move down the group, electronegativity increases
 - D. As we move across the table, electronegativity increases

- Which of the following elements is responsible for the rigidity of the teeth of the human body?
 - A. Calcium
 - B. Phosphorus
 - C. Fluorine
 - D. Sodium
- Which of the following pigments is found in Tomato?
 - A. Anthocyanin Pigment
 - B. Betalene Pigment
 - C. Xanthocyanin pigment
 - D. Lycopene Pigment
- Which of the following is known as the powerhouse of a cell?
 - A) Mitochondria
 - B) Cytoplasm
 - C) Lysosome
 - D) Nuclei

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Page 62 of 62

- Which of the following is known as the suicide bag of a cell?
 - A) Mitochondria
 - B) Golgi Complex
 - C) Lysosome
 - D) Nuclei
- Which of the following cell organelle is responsible for transporting, modifying, and packaging proteins and lipids?
 - A) Mitochondria
 - B) Endoplasmic Reticulum
 - C) Golgi Complex
 - D) DNA