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CHEM 121

HISTORICAL SURVEY ON DEVELOPMENT AND IMPORTANCE OF ORGANIC CHEMISTRY

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REVISION QUESTIONS AND ANSWERS BASED ON SOME HISTORICAL SURVEY ON DEVELOPMENT AND IMPORTANCE OF ORGANIC CHEMISTRY

1. Who defined Organic Chemistry as a branch of science in 1820?

A) Fredrich Wohler B) Berthelot Newton C) Isaac Newton D) Jons Jacob Berzelius

Ans: D) Jons Jacob Berzelius

- Organic Chemical Compound was classified into Organic and ______.
 A) Inorganic B) Organic C) Aromatic D) Hydrocarbons Ans: A) Inorganic
- Jons Berzelius believed in the ideal of _______.
 A) Realism B) Evolution C) Vitalism D) Organism
 Ans: C) Vitalism
- 4. Vital force theory states that all organic compounds are produced from living organisms due to the presence of a ______. A) Carbon B) Vital force C) Oxygen D) Air Ans: B) vital force (pressure, temperature etc....)
- 5. When was the vital false theory abandoned? A)1827 B) 1815 C) 1829 D) 1828

Ans: D) 1828

- 7. 2KNCO + (NH4)₂SO₄ → 2NH₄NCO + K₂SO₄
 NH₄NCO ↔ H₂N CO NH₂

" H_2N – CO – NH_2 " in the equation above is a known as _____

A) Tristearin B) Urea C) Potassium Isocyanate D) Ammonia

Ans: B) Urea

8. Who was the first chemist to synthesis an organic compound?
A) Jons Berthelot B) J.J Berzelius C) Fredrich Wohler D) William Thompson

Ans: C) Fredrich Wohler

- 9. In 1854 Berthelot synthesized fat by reacting dry ______ with _____acid at the temperature of 200°C to yield Tristearin.
 - A) Nitrate and Ethanoic B) Ice and Methanoic C) Coke and Hydrochloric D) Glycerol and Stearic

Ans: D) Glycerol and Stearic

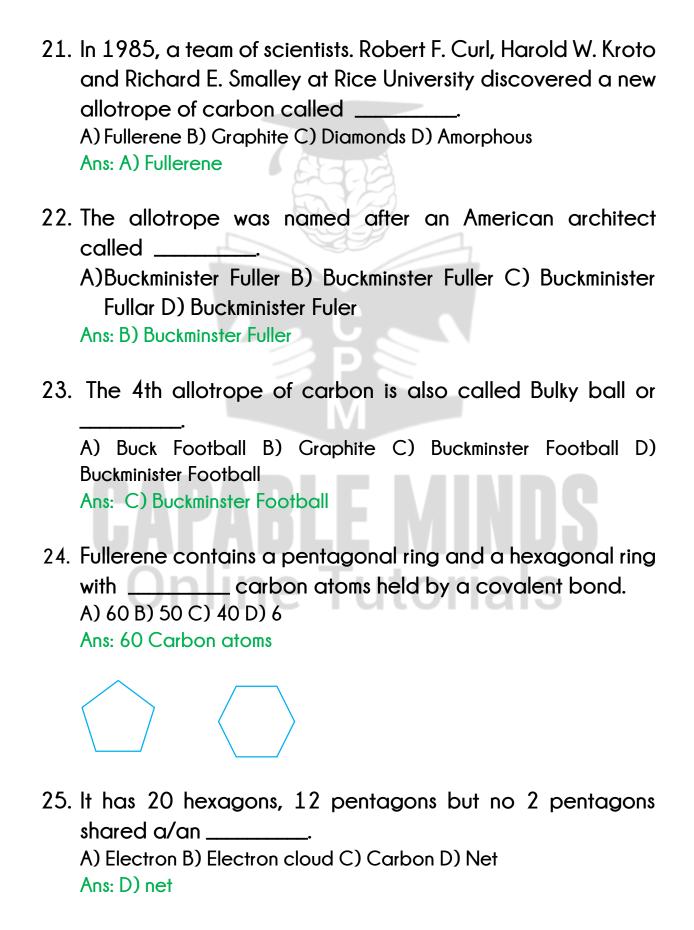
10. What did the synthesis of Urea and Fat disprove?

Ans: The synthesis of Urea and Fat disproved J.J. Berzelius theory that Organic chemistry could not be synthesis in the laboratory and from inorganic compounds.

11.	Carbonate (CO ₃ ²⁻), Bicarbonate (HCO ³⁻), and Cyanide (NaCN) and are Inorganic compounds. A) Methanol B) Carbides C) Urea D) Estersue/False Ans: B) Carbides
12.	In 1820, J.J. Berthelot proposed that were real elements of organic chemistry that could pass from one compound to another without any change. A) Radicals B) lons C) Hydrocarbons D) Anions Ans: A) Radicals
13.	The branch of Chemistry that studies the structures, properties and reactions of organic compounds which contain carbon and covalent boding is known as A) Microchemistry B) Organic Chemistry C) Pharmaceuticals D) Inorganic Chemistry Ans: B) Organic Chemistry
14.	The study of the determines the chemical composition and formation. A) Bonds B) Reactions C) Properties D) Structure Ans: D) Structure
15.	The study of the properties includes physical and properties. A) Environmental B) Chemical C) Atmospheric D) Hybrid Ans: Chemical
16.	The evaluation of chemical reactivity is to

behaviours Ans: D) Understand their behaviours 17. The study of ______ includes the chemical synthesis of natural products, drug and polymers. A) Molecular Reactions B) Vital Force C) Organic Reactions D) **Fullerene** Ans: C) Organic Reactions 18. Which of the following is not an importance of Organic Chemistry? A. Flexibility of carbon B. Pharmaceutical C. Food Distribution D. Employment Opportunity E. Molecular Biology Ans: C) Food Distribution 19. Which of the following is an importance of Organic Chemistry? A) Explosives Reactions B) Multiple Inflation C) Environmental Contaminants Analysis D) Overpopulation Ans: Environmental Contaminants Analysis 20. Fullerene is the _____ allotrope of carbon. A) First B) Second C) Third D) Fourth Ans: D) 4th Allotrope of Carbon.

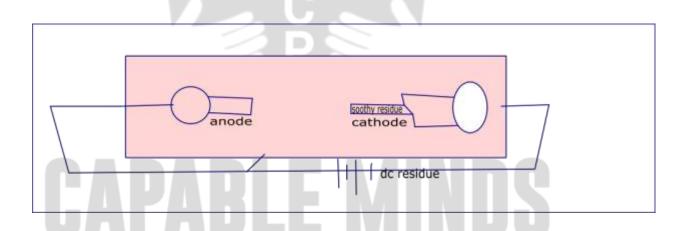
A) examine their physical properties B) study chemical synthesis C) Discover more inorganic compounds D) Understand their



26.	Each carbon atom was connected to exactly	
	neighbouring atoms	
	A) 60 B) 3 C) 6 D) 12	
	Ans: B) 3	

27. Fullerene also exists in various shapes in which carbon atom are arranged is a cage-like structure of hollow sphere C-60, Ellipsoid C-70 and _______.
A) C-80 Ellipsoid B) C-80 Pllisoid C) Tubes D) Circular Cones.

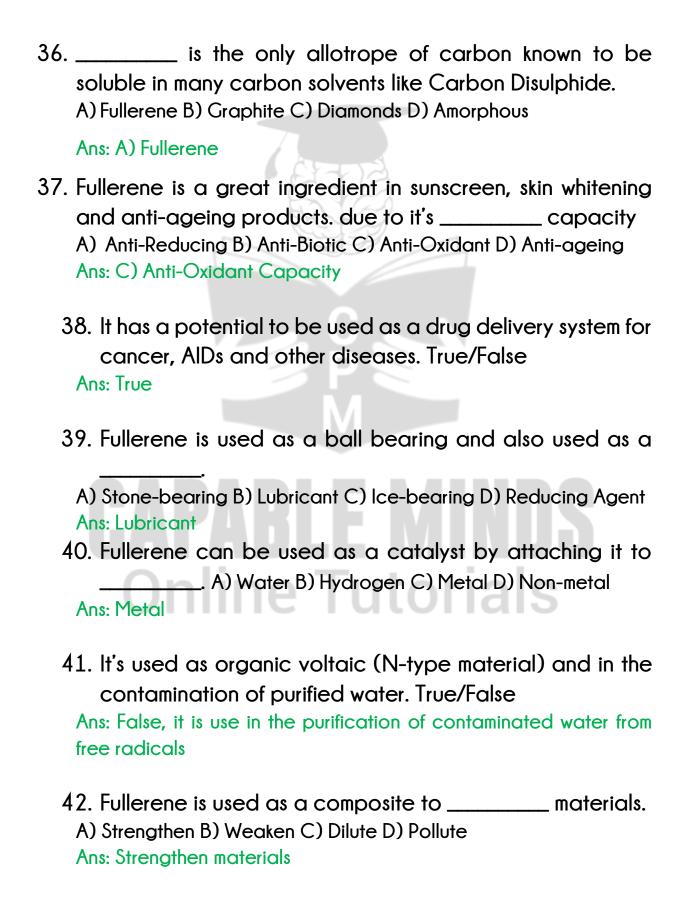
Ans: tubes (nanotubes)

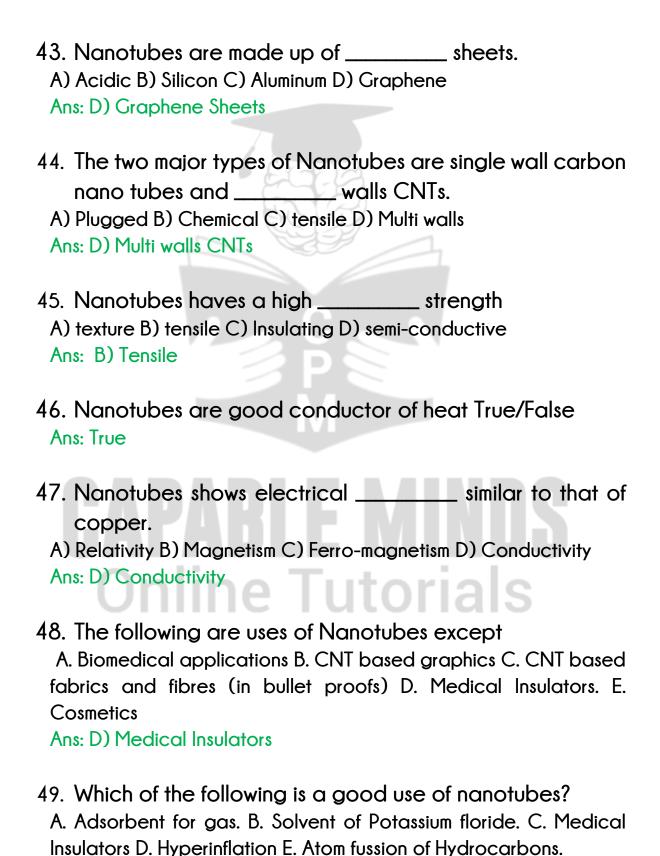


- 28. Fullerene carbon atoms present in XP2 hybrid form are usually linked together by ______ bonds.
 A)Electrovalent B) Dative C) Covalent D) Metallic Ans: C) Covalent Bonds
- 29. Two major types of Fullerene are the closed bulky balls and the open-ended _____ carbon nanotubes.A)Hexagonal B) Cylindrical C) Octahedral D) Triangular

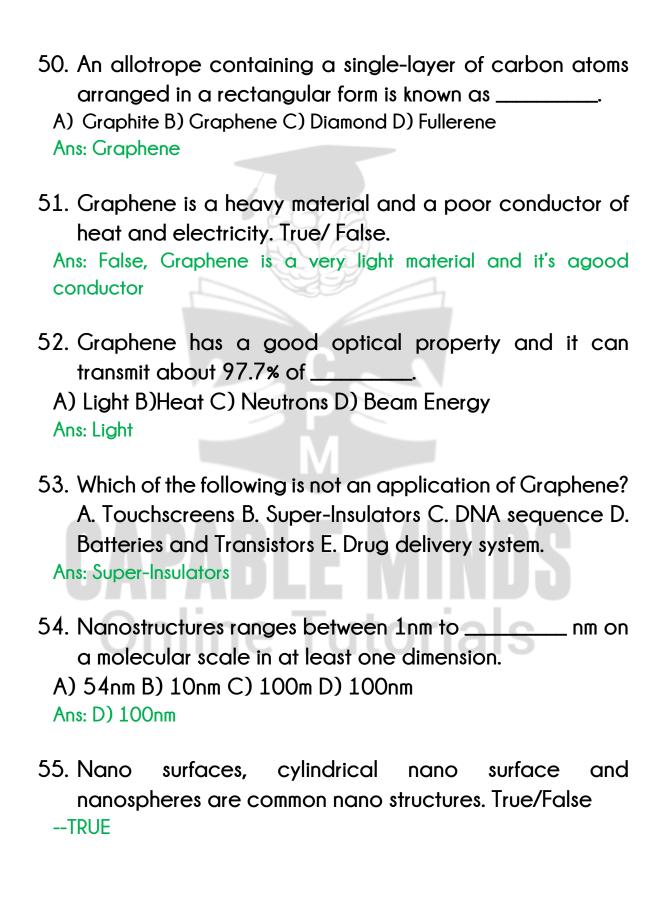
Ans: B) Cylindrical Carbon nanotubes

30.	good conductor of A) Black holes B) Silicone C) Silt D) Electricity Ans: D) Electricity
31.	Fullerene is quite stable and very reactive. True/False? Ans: False (Fullerene is stable and not very reactive)
32.	In chemical reactions, Fullerene acts as a/an A) Electrophile B) Anti bond element C) Nucleophile D) Ferromagnetic Element. Ans: A) Electrophile
33.	Fullerene can act like an electron-accepting group and it's characterized as an agent. A) Reducing Agent B) Oxidizing Agent C) Drying agent D) Precipitating Agent Ans: B) Oxidizing Agent.
34.	When dumped or crystallized with alkaline or earth metals. Fullerene showcases properties. A) Insulative B) Conductive C) Semi-conductive D) Superconductivity Ans: Super-conductivity properties.
35.	The ingredient in Aspirin is A) Ethanoic acid B) Acetylsalicylic acid C) Willow-bark D) Urea Ans: B) Acetylsalicylic acid





Ans: A) Adsorbent for aas.



56. The branch of Nanoscience that deals with the chemical applications of nanomaterials in nanotechnology is known as _____. A) Nanotechnology B) Nano chemistry C) Nano structure D) Nano material science Ans: B) Nano Chemistry 57. Nanochemistry involves the study of the synthesis and characterization of materials of ______ size. A) Mini B) Meaa C) Macro D) Nano Ans: D) Nano 58. Nanochemistry as a branch of chemistry was conceived 1956 True/False. Ans: False, Nanochemistry is a relatively new branch of Chemistry 59. What is a nanometer? A)A Billion meter B) A Billionth of a meter C) A trillionth of a meter D) A millionth of a meter Ans: B) A nanometer is a billionth of a meter $(1nm = 10^{-9}m)$ 60. The design of characterization, production

60. The design of characterization, production and application of structures, devices and systems by controlled manipulation of size and shape at the nanometer scale (atomic, molecular and macromolecular scale) that produces structures, devices and system with at least one novel/superior with at least one novel/superior characteristics or properties is knows as ______.

A) Nano Science B) Nanotechnology C) Nano Bioscience D) Nano Chemistry

Ans: Nanotechnology

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