

**GK & Science
One Liners PDF
Study Plan
Day 1**

GK and Science One Liners PDF | Daily Study Plan: Day 1 (Chemistry)

- 1: 'Isotonic solution' refers to those two solutions which have- **Same Osmotic pressure**
2. Name the metal which is generally mixed with gold while making the ornaments - **Copper**
3. Which law states that at a constant temperature, the volume of a definite mass of a gas is inversely proportional to pressure - **Boyle's Law**
4. Gamma rays were discovered by - **Paul Villard**
5. J J Thomson is credited with the discovery of - **Electrons**
6. Which equation explains the dual nature of electron - **De-Broglie Equation**
7. The watermelon model was given by - **Thomson's model**
8. Charle's Law describes the relation between - **Volume and Temperature**
**** Charles' law describes the relationship between** temperature and volume at a constant pressure. Increasing the temperature **of** a volume **of** gas causes individual gas molecules **to** move faster.
9. Who out classified the elements into metals and non-metals - **Lavoisier**
10. NaCl is formed by which bond - **Ionic or electrovalent bond**
11. Hair cream, milk are the examples of - **Emulsion**
12. Zeman's effect is related with - **Atomic Spectra**
13. Which bond is formed by the complete transfer of one or more electrons from one atom to another atom - **Ionic Bond**
14. What is the number of periods in the modern periodic table? - **7 periods**
15. The atomic number of an element is the number of - **Electrons or protons**
16. Proton/Neutron/Electron which of the following has the greatest mass? - **Neutron**
17. The hardest substance available on earth is ____ - **Diamond**
****The hardness of a diamond** is due to the structure of its carbon atoms. In diamond, each carbon atom is bonded to four other carbon atoms which form giant, **three-dimensional structure.****
18. Rutherford's scattering experiment proved the presence of - **Nucleus in atoms**
19. The molecular weight of a substance can be calculated by measuring - **Vapour Density**
20. The chemical behaviour of an atom is determined by its - **Atomic number because that indicates the number of electrons**
21. **Isotopes and Allotropes** have the same chemical properties
22. Rusting of iron is a - **Chemical Change**
A **chemical change** is a change of materials into other, new materials with different properties and one or more new substances are formed. **E.g.** Iron Rust
23. An exothermic reaction is one which is - **Accompanied by liberation of heat**
24. Pencil "lead" is made up of - **Graphite**
25. What is the Molar mass of Benzene? - **78.11 g·mol⁻¹**
26. What is the atomic number of Iron? - **26**
27. Cathode rays can be deflected by – **Both magnetic and electric fields**
****J. J. Thomson** showed that cathode rays were composed of a previously unknown negatively charged particle, which was later named the **electron**. **Cathode ray tubes (CRTs)** use a focused beam of electrons deflected by electric or magnetic fields to create the image on a television screen.**



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28. Which was first human-made plastic - **Celluloid**

29. When a piece of quicklime is dipped in water, it gives bubbles. This bubbling is due to - **the escape of water vapours**

30. What is the number of synthetic elements in Periodic Table - **20 Elements**

****Chemical element that does not occur naturally on Earth, and can only be created artificially. So far, 20 synthetic elements have been created (those with atomic numbers 99–118).****



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