



# CHEMISTRY

## BOOKS - NDA PREVIOUS YEARS

### NDA QUESTION PAPER 2021

#### Part B

1. Rutherford's alpha particle ( $\alpha$ ) scattering experiment was responsible for the discovery of which one of the following ?

A. Electrons

B. Proton

C. Atomic Nucleus

D. Neutrons

**Answer:**



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**2. What is the maximum number of electrons in the M-shell ?**

A. 6

B. 8

C. 18

D. 32

**Answer:**



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**3.** Chlorine occurs in nature in two isotopes forms of masses 35 u and 37 u in the ratio of

3:1 respectively. What is the average atomic mass of the Chlorine atom ?

A. 36.1 u

B. 35.5 u

C. 36.5 u

D. 35.1 u

**Answer:**



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4. Which one of the following elements isotopes is used in the treatment of cancer ?

A. Iodine

B. Sodium

C. Cobalt

D. Uranium

**Answer:**



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5. To protect steel and iron from rusting a thin layer of which one of the following metals is applied ?

A. Magnesium

B. Zinc

C. Aluminium

D. Lead

**Answer:**



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6. Cinnabar is an ore of which one of the following ?

A. Copper

B. Zinc

C. Mercury

D. Manganese

**Answer:**



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7. The pH value of Milk of Magnesia is approximately

A. Zero

B. 7

C. 10

D. 14

**Answer:**



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8. Which one of the following compounds is used in 'black and white' photography ?

A.  $\text{AgF}$

B.  $\text{AgBr}$

C.  $\text{AgCl}$

D.  $\text{Ag}_2\text{SO}_4$

**Answer:**



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9. What is the number of water molecules present in a Ferrous Sulphate crystal ?

A. 1

B. 3

C. 5

D. 7

**Answer:**



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10. What is the colour of the precipitate obtained by passing  $CO_2$  gas through lime water ?

A. Green

B. Blue

C. White

D. Brown

**Answer:**



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11. Which one of the following pairs of elements is liquid at room temperature and at normal pressure ?

- A. Gallium and Bromine
- B. Mercury and Bromine
- C. Gallium and Mercury
- D. Gallium and Caesium

**Answer:**



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12. Which one of the following methods can be used to separate anthracene from a mixture of salt and anthracene ?

A. Distillation

B. Sublimation

C. Evaporation

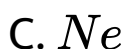
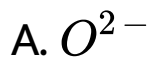
D. Chromatography

**Answer:**



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13. Which one of the following ions is not isoelectronic with  $F^-$ ?



**Answer:**



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**14.** What is the total number of covalent bonds in methanol ?

A. 3

B. 4

C. 5

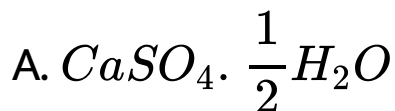
D. 6

**Answer:**



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15. Which one of the following is the chemical formula of Plaster of Paris ?



**Answer:**



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