



Q.5 Brownian motion is..... type of motion (CO5)

- a) zig-zag                      b) linear
- c) circular                    d) none of these

Q.6 Coal is.....type of fuel (CO4)

- a) liquid                      b) Solid
- c) gas                        d) None of these

### SECTION-B

**Note:** Objective/ Completion type questions. All questions are compulsory. (6x1=6)

Q.7 Define atom. (CO1)

Q.8 Give two examples of fuel (CO2)

Q.9 Write one use of fuel (CO2)

Q.10 Strong chemical bond forms in \_\_\_\_\_  
(physiosorption/ chemisorption) (CO4)

Q.11 Define Ceramics (CO6)

Q.12 Define Coagulation. (CO5)

### SECTION-C

**Note:** Short answer type questions. Attempt any eight questions out of ten questions. (8x4=32)

Q.13 Write down the formula of following compounds (CO1)

- a) Calcium chloride
- b) Ozone

Q.14 Define following (CO1)

- a) Exothermic reactions
- b) Endothermic reactions

Q.15 Explain proximate analysis analysis of coal .(CO2)

Q.16 What is water gas ? Write its three uses. (CO2)

Q.17 Explain the concept of vaporization and sublimation curve. (CO3)

Q.18 Explain the concept of triple point. (CO3)

Q.19 Differentiate between physiosorption and chemisorption (CO4)

Q.20 Explain the terms tyndall effect and Brownian motion. (CO4)

Q.21 What are refractories. Explain its types with example. (CO5)