

**COSMOS**

**SCIENCE**

**CHAPTER WISE SOLUTION**

**Chapter 1. Exercises-**

Pg. 9 and 10 → **A.** 1. a. , 2. c. , 3. c. , 4. c, 5. d.

Pg. 10 → **B.** 1. Autotrophs, 2. Chlorophyll, 3. Rhizobium, 4. Heterotrophs, 5. Decomposers . **C.** 1. False, 2. False, 3. True, 4. True, 5. True. **D.** 1. Heterotrophic, 2. Green plants, 3. Oxygen, 4. Rhizobium, 5. Venus fly trap.

**Chapter 2. Exercises-**

Pg. 19 → **A.** 1. b, 2. b, 3. a, 4. b. **B.** 1. Intra cellular , 2. Absorption, 3. Cilia , 4. Incisors, 5. Liver.

Pg. 19 & 20 → **C.** 1. True , 2. True, 3. True , 4. False, 5. True . **D.** 1. Insects, 2. Egestion, 3. 20, 4. Oesophagus, 5. No digestive enzyme released from liver.

**Chapter 3. Exercises-**

Pg. 29 & 30 → **A.** 1. a, 2. b, 3. a, 4. c, 5. d.

Pg. 30 → **B.** 1. Colder , 2. Galileo's gas thermometer, 3. 273 K, 4. Conduction, 5. Radiation. **C.** 1. True, 2. False, 3. True, 4. True , 5. False. **D.** 1. Andre Celsius, 2. Laboratory, 3. Convection, 4. Black body.

**Assignment- 1 (Chap. 1 to 3)**

Pg. 33 → **A.** 1. b, 2. a, 3. c, 4. d, 5. c, 6. a, 7. d, 8. a. **B.** Column B – 4, 1, 2, 3.

**Chapter 4. Exercises –**

Pg. 43 → **A.** 1. b, 2. a, 3. c, 4. d, 5. d. **B.** 1. Sour , 2. Strong, 3. Neutral 4. Synthetic , 5. Base.

Pg. 45 → **C.** 1. False , 2. True, 3. True , 4. True , 5. True. **D.** 1. Lactic acid , 2. Carbonic acid, 3. Phenolphthalein, 4. Salt & water, 5. Methanoic acid, 6. Calcium oxide.

**Chapter 5. → Exercises**

Pg. 54 → **A.** 1. b, 2. b, 3. b , 4. d, 5. b **B.** 1. Physical change, 2. Crystallization, 3. Galvanization, 4. Carbondioxide, 5. Oxidation .

**Assignment 2 – ( Chap. 4 to 5)**

Pg. 57 → **A.** 1. c, 2. a , 3. a, 4. c , 5. d. **B.** Column B - 1, 3, 2, 5, 4.

**Assessment 1 – (Chap. 1 to 5)**

Pg. 58 → **A.** 1. a, 2. a, 3. c, 4. b. **B.** 1. Rhizobium, 2. Chlorophyll, 3. Liver , 4. Day , 5. Pseudopodia.

**Chapter 6. → Exercises**

Pg. 66 → **A.** 1. b, 2. b, 3. a, 4. b, 5. b. **B.** 1. Stomatal, 2. Membrane, 3. Lungs, 4. Epiglottis, 5. Oxygen.

C. Column B – 2, 5, 4, 1, 3. D. 1. All the time, 2. Carbon dioxide, 3. Spiracles, 4. Pharynx, 5. Thorax, 6. Lactic acid.

**Chapter 7. → Exercises**

Pg. 78 & 79 → A. 1. a, 2. c, 3. d, 4. b, 5. d.

Pg. 79 → B. 1. Vascular, 2. Osmosis, 3. Transpiration, 4. Plasma, 5. Nephron. C. 1. True, 2. True, 3. False, 4. True, 5. True. D. 1. Transpiration, 2. Heart, 3. Haemoglobin, 4. Stethoscope, 5. Urinary bladder

**Chapter 8. → Exercises**

Pg. 90 → A. 1. c, 2. a, 3. d, 4. a, 5. b. B. 1. Fragmentation, 2. Eyes, 3. Grafting, 4. Male, 5. Wings.

C. 1. True, 2. True, 3. True, 4. false, 5. True.

Pg. 90 & 91 → D. 1. Fragmentation, 2. Bryophyllum, 3. Layering, 4. Stamen, 5. Wind.

**Assignment- 3 (Chap. 6 to 8)**

Pg. 93 → A. 1. d, 2. a, 3. a, 4. d, 5. c, 6. b, 7. a, 8. a, 9. a, 10. b. B. Column B – 3, 5, 2, 4, 1, 6.

**Chapter 9. → Exercises**

Pg. 100 & 101 → A. 1. b, 2. d, 3. d, 4. d, 5. c.

Pg. 101 → B. 1. Sand clock, 2. Oscillation, 3. Vibrate, 4. Speed, 5. Steeper. C. 1. True, 2. True, 3. False, 4. True, 5. True. D. 1. 2 secs., 2. Very fine spring, 3. 10 years, 4. m/sec, 5. Uniform motion.

**Chapter 10. → Exercises**

Pg. 111 & 112 → A. 1. a, 2. c, 3. b, 4. c, 5. a, 6. c.

Pg. 112 → B. 1. Switch, 2. Parallel, 3. Resistor, 4. MCB, 5. Electro magnetism. C. 1. True, 2. True, 3. False, 4. False, 5. True. D. 1. Anode & cathode, 2. Series & parallel, 3. Iron, 4. Tungsten, 5. Magnetic levitation, 6. Electric bells.

**Chapter 11. → Exercises**

Pg. 123 & 124 → A. 1. b, 2. c, 3. b, 4. a & b, 5. b.

Pg. 124 → B. 1. Straight, 2. Real, 3. Pole, 4. Convex, 5. Spectrum. C. 1. True, 2. True, 3. True, 4. True, 5. False. D. 1. Light, 2. Reflection, 3. Lateral inversion, 4. Pole, 5. Concave

**Chapter 12. → Exercises**

Pg. 133 & 134 → A. 1. a, 2. b, 3. a, 4. d, 5. c.

Pg. 134 → B. 1. Forest floor, 2. Roots, 3. Moisture, 4. Pollen, 5. Decomposers. C. 1. True, 2. False, 3. True, 4. False, 5. False. D. 1. 30% of the total land area of the world, 2. Overstorey, 3. Atharva, 4. No, 5. Afforestation.

**Chapter 13. → Exercises**

Pg. 143 → **A.** 1. d, 2. d, 3. b, 4. d. **B.** 1. 70% , 2. Photosynthesis , 3. Desalinated, 4. Municipal , 5. 50.  
**C.** 1. True, 2. False, 3. False, 4. True, 5. False, 6. True.

Pg. 143 & 144 **D.** 1. Water, 2. Large amount of Salt , 3. Dams, 4. Water pumps , 5. Rain water harvesting.

**Assignment 4 → (Chap.9 to 13)**

Pg. 146 → **A.** 1. b, 2. b , 3. d, 4. b, 5. d, 6. a, 7. d, 8. d, 9. b, 10. b . **B.** Column B – 5, 4, 6, 3, 1, 2.

**Assessment 2 → (Chap. 9 to 13)**

Pg. 147 → **A.** 1. a, 2. c, 3. a, 4. b. **B.** 1. True, 2. False, 3. True , 4. False, 5. True . **C.** 1. 10 years, 2. Stethoscope, 3. Spiracles, 4. Phloem, 5. Cutting.