

**CBSE MIXED TEST PAPER-15**

**CLASS - 9 SCIENCE**

**THIRD UNIT TEST**

**General Instruction:**

- (1) All questions are compulsory.
- (2) Marks allotted are indicated against each questions
- (3) Attempt Part A and Part B separately on the same answer sheet.

**PART – A**

Q1. In what direction does the buoyant force on an object immerse in a liquid act? [1]

Q2. 'Work is a scalar quantity' want do you mean by it? [1]

Q3. What Avogadro's number? [1]

Q4. What does  ${}^{11}_5B$  indicate? [1]

Q5. A small Iron needle sink in water but a ship made of iron floats why? [1]

Q6. State whether the work is being done in the following activities or not? [2]

- a. A green plant is carrying out photosynthesis.
- b. A coolie carrying out photosynthesis.
- c. A box is swimming in a pool.
- d. A windmill is lifting water from a well.

Q7. Hwy do we use school bags with wide strips? [2]

Q8. What are the properties of cathode rays? [2]

Q9. Calculate the number of moles in the following. [2]

- a. 16 gm of  $O_2$
- b.  $3.01110^{23}C$  atoms.

Q10.

a Define Archimedes Principle

b. What will happen if

i.  $W > B$

ii.  $W < B$

$W$  = weight of body

$B$  = Buoyant force

Q11. A 5kg ball is thrown up with a speed of 10m/s ( $g = 10\text{m/s}^2$ ) [3]

i. Find its Kinetic energy at the time of throw?

ii. What is the height of which it rises?

Q12. Calculate which has more atoms and how much [3]

-92 gm of Sodium or 112 gm of Iron

(Atomic masses: Na = 23, Fe = 56)

Q13. Complete the following table, where elements are hypothetical. [3]

S.N	Elements	Atomic Mass	Atomic Number	p	n	e	Electronic Configuration
1	X	-	17	17	20	17	2, 8, 7
2	Y	12	-	06	06	06	2, 4
3	Z	23	11	-	12	11	2, 8, 1
4	P	19	09	09	-	09	2, 7
5	Q	09	04	04	05	-	2, 2
6	R	31	15	15	16	15	-

### PART – B

Q14. Which disease we want to eradicate from our country by pulse polio programme? [1]

Q15. What do you mean by the term climate? [1]

Q16. Under what condition you are most likely to fall sick and why? [3]

- a. Diabetes
- b. Measles
- c. Dwarfism

Q17. Name two activities which may be polluting water resources. [2]

Q18. What causes wind? [1]

Q19. Write point wise how forests influence the quality of our air, soil and water resources.  
[1]

Q20. What are the various modes of transmission of diseases? [3]