

HALF YEARLY EXAMINATION, 2023-24  
SUBJECT : SCIENCE  
CLASS - IX

TIME: 3 hrs.

MARKS: 80

**General Instructions**

- i. The question paper has five sections and 39 questions.
- ii. All questions are compulsory.
- iii. Section A has 20 questions of 1 mark each; Section B has 6 questions of 2 marks each; Section C has 7 questions of 3 marks each; Section D has 3 questions of 5 marks each and Section-E has 3 questions of 4 marks each.
- iv. There is no overall choice.

**SECTION - A**

1. The shortest distance measured from the initial to the final position of an object is known as :-  
a) it's displacement  
b) it's distance  
c) it's velocity  
d) none of these
2. On the basis of chemical composition , substance can be classified as?  
a) Element  
b) Compound  
c) Both a and b  
d) None of the above
3. Sol and gel are examples of  
a) Solid-solid colloids  
b) Sol is a solid-liquid colloid and gel is liquid solid colloid  
c) Sol is solid-solid colloid and gel is solid-liquid colloid  
d) Sol is a liquid-solid colloid and gel is a solid-liquid colloid
4. A cricket player catches a ball of mass 0.1 kg, moving with a speed 10 m/s in 0.1 second. Force exerted by him is  
a) 4  
b) 2  
c) 1  
d) 10
5. Two chemical species X and Y combine together to form a product P which contains both X and Y  
 $X + Y \rightarrow P$   
X and Y cannot be broken down into simpler substances by simple chemical reactions. Which of the following concerning the species X, Y and P are correct ?  
i. P is a compound  
ii. X and Y are compounds  
iii. X and Y are elements  
iv. P has a fixed composition  
a) (i), (ii) and (iii)  
b) (i), (iii) and (iv)  
c) (ii), (iii) and (iv)

# Physical Science Half Yearly Exam Memo Of 2015

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## **Physical Science Half Yearly Exam Memo Of 2015:**

**Congressional Record** United States. Congress, 2017-07-12      **A First Course in Dimensional Analysis** Juan G. Santiago, 2019-10-22 An introduction to dimensional analysis a method of scientific analysis used to investigate and simplify complex physical phenomena demonstrated through a series of engaging examples This book offers an introduction to dimensional analysis a powerful method of scientific analysis used to investigate and simplify complex physical phenomena The method enables bold approximations and the generation of testable hypotheses The book explains these analyses through a series of entertaining applications students will learn to analyze for example the limits of world record weight lifters the distance an electric submarine can travel how an upside down pendulum is similar to a running velociraptor and the number of Olympic rowers required to double boat speed The book introduces the approach through easy to follow step by step methods that show how to identify the essential variables describing a complex problem explore the dimensions of the problem and recast it to reduce complexity leverage physical insights and experimental observations to further reduce complexity form testable scientific hypotheses combine experiments and analysis to solve a problem and collapse and present experimental measurements in a compact form Each chapter ends with a summary and problems for students to solve Taken together the analyses and examples demonstrate the value of dimensional analysis and provide guidance on how to combine and enhance dimensional analysis with physical insights The book can be used by undergraduate students in physics engineering chemistry biology sports science and astronomy      Offshore Mechatronics Systems Engineering Hamid Reza Karimi, 2018-07-04 The book gives a systematical and almost self contained description of the many facets of envisaging designing implementing or experimentally exploring offshore mechatronics and systems along the adequate designs of integrated modeling safety control and supervision infrastructure With the rapid improvements in offshore technologies in various fields such as oil and gas industry wind energy robotics and logistics many researchers in academia and industry have focused on technology based challenges raised in offshore environment This book introduces novel theoretical or practical techniques for offshore mechatronics systems Chapters cover general application model based systems engineering wind energy control systems mechanics health monitoring safety critical human machine systems logistics and offshore industrial complexes such as oil and gas operations robotics large space structures and autonomous underwater vehicles and some other advanced technologies The core feature of this book is that of establishing synergies of modeling control computing and mechanics in order to achieve not only robust plant system operation but also properties such as safety cost integrity and survivability while retaining desired performance quality The book provides innovative insights into applications aspects and theoretical understanding of complex offshore mechatronics systems that has emerged in recent years either via physical implementations or via extensive computer simulations in addition to sound innovated theoretical developments It will serve as a reference for graduate and postgraduate students and for researchers in all engineering disciplines including



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