## Atomic Energy Central School, Narora

Periodic Test III (2018-19)

Subject - Science Class- IX

Maximum Marks - 40

## **Physics**

Important instructions:

(a) All questions are compulsory (b) Use of calculator is not allowed

**Q1Define Displacement** 

Time – 1 hour& 30 minutes

- [1] Q2 A motor boat starting from at rest on a lake accelerate on a straight at a constant rate 3 m/s<sup>2</sup> for 8 sec. How far does the boat travel during this time ? [2]
- Q3 State Newton's second law of motion and derive an expression for the force . [2]
- Q4Difine acceleration due to gravity and establish relation between g and G [3]
- Q5 Define Kinetic Energy and write its two examples and also derive an express for it [5]

## Chemistrv

1.	. Who discovered neurons?				1	
2.	2. State the difference between valency and valence electrons.				2	
3.	3. Write two uses of isotopes.					
4.	What are the drawbacks of Rutherford's model of atom.					
5.	An element is represented by 15A <sup>31</sup>					
	i. Find the atomic number					
	ii. Find the mass number					
	iii. Find the number of valence electrons.					
6.	. Composition of P and Q are as following					
		Protons		Neutrons		
	Ρ	8	8			
	Q	8	10			
	i. Write the number of electrons in p.					
	ii. Find the mass no. of P and Q.					
	iii. What is the relation between two species?					

## **Biology**

1. Name a group of plants where naked seeds are present.	[1]		
2. Name a disease transmitted by animal bite.			
3. Give an example of infectious and non-infectious disease.			
4. (a) Define health.			
(b) Write any two possible reasons for transmission of AIDS.	[2]		
5.What are the four main charecteristics of chordate.			
6. Give four main features of phylum Cnidaria.			
7. Tabulate main differences between acute and chronic diseases.			
8.Write names of few thallophytes.Draw a laballed diagram of			
Spirogyra.	[3]		