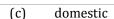
SUB : Science I Marks: 40		e I	Preliminary Exam: 3		Std : 10 <sup>th</sup> Time : 2 Hrs
Note :	1) 2) 3) 4)	All questions are compuls Figures to the right indica Draw well labeled diagran Students should write the	te full marks. ns wherever necessary		
Q.1. A)	) 1) Find odd one out, give reason for your a		reason for your ans	wer.	(02)
	i)	Helium, Radon, Argo	on, Boron		
	<ul><li>ii) Vinegar, Tamarind, Bitter gourd, Lime</li><li>2) Match the pairs.</li></ul>		itter gourd, Lime Ju	ice	
				(02)	
		Column A		Column B	
		<ul><li>i) Common salt</li><li>ii) Charge</li></ul>		a) Sodium sulphat	e
				<b>b)</b> ampere	
				c) Sodium Chlorid	e
	<b>a</b> >	YAY :: . 1 . 1 . 6	CMDI	d) Coulomb	(04)
	3)	Write the long form of	MRI.		(01)
B)	B) Multiple choice questions.				(05)
	i)			s in their outermost shell.	
		(a) s- block	(b) d- block		(d) f- block
ii) When small amount of red oxide (CuO) is treated with dil. HCl, the colour of solution becomes blu					of solution becomes blue
_0	due to the formation of		KNOW	LEDGE	
		(a) Copper sulpha	ite		
		(b) Cupric hydrox	ide		
	-	(c) Copper Chlori	de		
		(d) Copper Phosp	hate	<b>Digital Way</b>	Of Learning
iii) When the coil of D.C. generator rotates in the magnetic field is produced in the coil.					
	,	(a) resistance		g	
		(b) potential diffe	rence		
		(c) alternating cu	rrant		
		(d) direct current			
	iv)	Waste water originating from kitchen is			
		(a) industrial			
		(b) agricultural			



(d) thermal

v) .....is a primary pollutant.

(a) Ash

(b) Hydrogen cyanide

(c)  $SO_3$ 

(d)

## Q.2. Answer the following questions. (Any Five)

(10)

1) Give scientific reason: The chemical equation is needs to be balanced.

2) Is there plant having stinging hair? Name the plant.

3) What is electric power? What is S.I. unit of electric power?

Magnetic field

 $O_3$ 

4) Place a coin at the bottom of glass jar containing water. Now tilt the jar suitably.

When viewed at a suitable angle the coin appears to be floating. Why?

- 5) The power of a convex lens is 2 dioptre. Find its focal length.
- 6) An electron enters a magnetic field at right angles as shown in the figure. Comment on the direction of force acting on the electron.

## Q.3. Answer the following questions. (Any Five)

(15)

- 1) Distinguish between: Inert gas elements and Normal elements. (Write minimum three points of each)
- **2)** Identify the types of reactions.
  - i)  $0_3 \rightarrow |0| + 0_2$
  - ii)  $2NO_2 \rightarrow 2O_2 + N_2$
  - iii)  $C_3H_6O + 4O_2 \rightarrow 3CO_2 + 3H_2O$
- KNOWLEDGE
- 3) State Right hand thumb rule. Draw the figure to support your answer.
- An object of size 7 cm is placed at 25 cm in front of concave mirror of focal length 15 cm. At what distance from the mirror should a screen be placed so that we can get a sharp and clear image. Find nature and size of the image.
- 5) Draw neat and labeled diagram to show the formation of image by concave mirror if i) the object is at centre of curvature, ii) the object is kept at focus.
- **6)** Describe the main sources of water pollution.

## Q.4. Answer the following questions.

(05)

Describe the experiment to show that electric current produces heating effect.

OR

Explain Newton's experiment to show that sunlight is a mixture of seven colours.