	- (	(1) -			- (2	.) -	
1.	Which of the following substances is pure?	1	(A) only liquid (B) only gas		(A) 50km/hr (B) 48km/hr		(C) Acceleration due to gravity
	(A) Brass (B) Bronze		(C) Both liquid and gas		(C) 45km/hr (D) none of these		(D) Density of the fluid
	(C) Antimony (D) Steel		(D) Solid liquid as well as gas	19.	The effects of force may be started as -	25.	Where is the speed of sound at 25°C maxi-
2.	Milk is amixture.	11.	What is the chemical formula of neon?:		(A) Change of state of a body	20.	mum of the following media??
	(A) Homogeneous (B) Heterogenous		(A) N (B) $N_2$		(B) Change of shape of a body		(A) Hydrogen (B) Helium
	(C) Both(a) and (b) (D) none of these		(C) Ne (D) Ne <sub>2</sub>		(C) Change in direction of motion of a body		(C) Methanol (D) Ethanol
3.	What is the valency of phosphate ion?	12.	The approximate ratio of the diameter of atom		(D) All of the above.	26.	Find the speed of the satellite which is re-
	(A) 1 (B) 2		to that of its radius is	20.		20.	volving uniformly at a height of 6400km
	(C) 3 (D) 4		(A) 10 <sup>5</sup> (B) 10 <sup>5</sup> mm		mass 'm'moving with a uniform velocity 'v"?		above the ground and takes a day to com-
4.	What is the chemical name of the com-		(C) 10⁵cm (D) 10⁵m		(A) mv (B) mv <sup>2</sup>		plete the revolution. [Given: Radius of the
	pound "(NH <sub>A</sub> ) <sub>2</sub> SO <sub>A</sub> "	13.	Evaporation takes place		(C) 1 (D) 0(7070)		· -
	(A) Ammonium sulphate		(A) Only at melting point		(C) $\frac{1}{2}$ mu <sup>2</sup> (D) 0(zero)		earth = 6400km, neglecting the motion of
	(B) Diammonium sulphate		(B) only at boiling oint	21.	,		the earth]
	(C) Tetrammonium sulphate		(C) above melting point		hearing for human ear lies in the range of		(A) 2 π x 266.67 km/hr
	(D) Ammonium tetrasulphate		(D) at all temperature				(B) 2π x 266.67 m/sec
5	What is the ratio of the number of atoms	14.	Which of the following is not a general prop-		(A) 20Hz - 20KHz		(C) $2\pi \times 533.33$ km/hr
	present in a mole of oxygen molecule to		erty of metal?		(B) 20sec - 20 min	07	(D) $2\pi \times 533.33$ m/sec
	that a mole of oxygen atom?		(A) Conductivity (B) Lustre		(C) 0.00005sec - 0.05sec	21.	A particle is taken to a height 2R Above
	(A) 1 (B) 2		(C) Ductility (D) Brittleness		(D) 0.0005sec - 0.05sec		the surface where 'R' is the radius of the
	(C) $6.022x10^{23}$ (D) $2x6.022x10^{23}$	15.	What is the percentage of composition	22.	7		earth. The acceleration due to gravity of
3	What is the change in temperature when		alumnium in alumnium sulphate?		whose motion is represented by the given		the earth at that point is
<i>)</i> .	3.34x10⁵ J of heat is supplied to 1kg of ice		(A) 36% (B) 21.95%		graph as below? $_{f V}$		(A) 9.8m/s <sup>2</sup> (B) 4.9m/s <sup>2</sup>
	at 0°C?		(C) 8.57% (D) 15.79%		ହି 🕇		(C) 2.45m/s <sup>2</sup> (D) 1.08m/s <sup>2</sup>
	(A) 0°C (B) 1°C	16.	An atom of an element has three electrons			28.	Which of the following can be a unit of the
	(C) 50°C (D) 100°C		present in the M-shell. What is the atomic		.∄ ° <b>T</b>		thrust?
7	What is the other name of canal ray?		number of the element?		Sit.		(A) Kg (B) Kg m/s
•	(A) Cathod ray (B) Anode ray		(A) 3 (B) 5		Velocity		(C) Kg.m/s <sup>2</sup> (D) Kg <sup>2</sup> m/s <sup>2</sup>
	(C) Alpha ray (D) Gamma ray		(C) 13 (D) 21		$X^{\prime} \leftarrow X + X + X$	29.	Ear drum is a part of:
2	12g of magnesium combines with 8g of	17.	The boiling points of water and ethanol are		1 2 3 4 5		(A) Outer ear (B) middle ear
<i>)</i> .	oxygen to produce 20g of magnesium		100°C and 78.5°C respectively. Which of the		Y' Time (s)	00	(C) Inner ear (D) All of the above
	oxide. If 24g of magnesiun is allowed to		following methods is the best suited for		(A) 20m/sec <sup>2</sup> (B) 5m/sec <sup>2</sup>	30.	The ratio of the unit of force in MKS to
	react with 100g of oxygen, what mass of		seperating them from their mixture		(C) 80m/sec <sup>2</sup> (D) 2.5m/sec <sup>2</sup>		that of its CGS is
	magnesium oxide will be produced?		(A) Seperation by seperating	23.	What will be the unit of the ratio of the S.I.		(A) 10 (B) 10 <sup>2</sup>
	(A) 124g (B) 100g		(B) Decantation funnel		unit of weight of an object to that of its	04	(C) $10^5$ (D) $10^7$
	(C) 40g (D) 20g		(C) Simple distillation		mass?	31.	A body of mass 5Kg moves uniformly in a
<b>.</b>	Isobars are the atoms having the same		(D) Fractional distillation		(A) Kg (B) N		circular path of radius 6m. What is the
<i>)</i> .	number of	18.	A man travels from Imphal to Moreh by his		(C) N.Kg (D) m/sec <sup>2</sup>		amount of work done by the body when it
	(A) protons (B) Neutrons		car with an average speed of 40km/hr and	24.	Identify the factors on which the buoyant		covers a complete cycle
	(C) Nucleons (D)None of the above		returns the same path with an average		force does not depend:		(A) 30J (B) 294J
10.			speed of 60km/hr. What is the average		(A) mass of the immersed body		(C) 1131.3J (D) 0
10.			speed of the whole journey?		(B) Volume of the fluid displaced	32.	What is the relative density of water?:
	as fluid:		oposa or the whole journey :				(A) 0 (B) 1

(B) 1

		- (	3) -			
	(C) 100	(D) 1000		(A) Hepadnavirus	(B) Picornavirus	
33.	The product of the free	quency and time pe-		(C) Flavivirus	(D) Lessavirus	
	riod of a wave is alway	'S	42.	What is the relative Vitamin C content of or-		
	(A) less than unity	(B) unity		ange (in mg/100g)?		
	(C) greater than unity	(D)depend on the wave		(A) 70	(B) 60	
34.	How many kilowatt	s do a megawatt		(C) 50	(D) 40	
	constitute?		43.	Which of the following	disease is a Zoonotic	
	(A) 1	(B) 1000		disease?		
	(C) 1000000	(D) 746		(A) Hepatities	(B) Tuberculosis	
35.	Oxysomes are preser	nt in		(C) Malaria	(D) Rabies	
	(A) Lysosomes		44.	Which of the following	substances is moved	
	(B) Endoplasmic recticulum			during the process of osmosis:		
	(C) Mitochondria	(D)Chromoplast		(A) urea	(B) carbon dioxide	
36.	Which of the following	of the right sequen-		(C) water	(D) sodium chloride	
	tial stages of karyokinesis?			Which of the followimg is the non-p		
	(A) prophase - anaphase - metaphase -			solvent?		
	telophase			(A) Water	(B) Liquid ammonia	
	(B) prophase - metap	hase - anaphase -		(C) Benzene	(D) Hydrochloric acid	
	telophase			What does biopestici	des constitute?	
	(C) prophase - anaphase - telophase -			(A) naturally occuring	substance that contro	
	metaphase			pest		
	(D) metaphase - prophase - anaphase -			(B) microorganisms	that control pest	
	telophase			(C) Pesticidal substances produced by the		
37.	Vessels are a type of	cell present in:		plants containig a	dded genetic material.	
	(A) Collelchyma			(D) All of the above		
	(B) Sclerenchyma xylem			Which of the following does not belong I		
	(C) xylem			taurus?		
	(D) Phloem			(A) Jersey	(B) Nelore	
38.	Who introduced the	term 'species' as a		(C) Swiss	(D) Angus	
	reproducing unit?			Which of the following bee is known as v		
	(A) Aristotle	(B) John Ray		ern honey bee?		
	(C) Carolus Linnaeus	(D) R.H. whittaker		(A) Apis indica	(B) Apis dorsata	
39.	What is the family nan	ne of Human being?		(C) Apis mellifera	(D) Apis florea	
	(A) Mammalia	(B) Primates	49.	What is the major component of the atmo-		
	(C) Homonidae	(D) Homo		sphere of Mars?		
40.	The member of which	phylum is known as		(A) Nitrogen	(B) Oxygen	
	Moss Animal			(C) Carbon dioxide	(D) Sulphur dioxide	
	(A) Nematoda	(B) Bryozao	50.	Which of the following organisms is respon		
	(C) Annelida	(D) Arthopoda		sible for dentrification	?	
41.	What causes hepatitics B?			(A) Rhizobium (B)		
				(C) Nitrosomonas(D) psuedomonas		

## 25<sup>th</sup>MIX (SCIENCE)

Time Allowed 1 hour Maximum Marks: 100

## Read the following instructions carefully before you begin to answer the questions.

- 1. This booklet contains 50 questions in all.
- 2. All questions are compulsory and each question carries 2 marks.
- Before you start to answer the questions you must check up this booklet and
  ensure that it contains all the pages 3 (Three) and see that no page is missing
  or repeated. If you find any defect in this Booklet, you must replace it
  immediately.
- 4. There will **NOT** be any negative marking for wrong answers.
- 5. You are required to fill the information on the answer sheet which you will get in the examination hall by **H.B. pencil or BALL point pen.**
- Answer Sheet and Question Paper will be supplied in examination hall. After the test is over, you should hand over the answer sheet to the invigilator before leaving the room.
- 7. You should write your **Name**, **Roll No.**, carefully on the space provided in the answer sheet. Otherwise you will be awarded **ZERO** mark.
- 8. If you wish to change your answer, ERASE completely the darkened circle by using an ERASER and then blacken the new circle. If not erased completely, smudges will be left on the erased circle and the question will be read as having two answer and will be ignored for giving any credit.
- Answer the questions as quickly and as carefully as you can. Some questions
  may be difficult and others easy. Do not spend too much time on any question.
- You are not allowed to leave the examination hall until you are advised to do so by the invigilator.