		RY SCHOOL, DELHI – 110 054							
Class 17-9-2		ative Assessment I in SCIENCE	Time : 3 hrs. M. Marks : 90						
	 General Instructions : Section A (Physics), Section B (Chemistry) and Section C (Biology) are to be attempted on separate answer sheets. For the MCQ in each section, select the correct answer and write in the answer sheet. 								
SECTION A - PHYSICS (M. Marks : 30; Time : 1 hr.)									
1.	What is streamlining? How	s it useful?	(2)						
2.	What is the effect of friction	on motion?	(2)						
3.	Explain four methods by which friction between the two surfaces in contact can be reduced.								
4.	Differentiate between regul	ar and irregular reflection with the help of	diagrams. (2)						
5.	List four main characteristic	s of the image formed by a plane mirror.	(2)						
6.	What do you mean by `blin	d spot' and `accommodation of human ey	e'? (2)						
7.	Calculate the number of images formed when two plane mirrors are kept at an angle of (i) 30° (ii) 60° (2								
8.	Describe an experiment to	show that air exerts pressure in all directi	ons. (3)						
9.	Write an activity to show th	e variation of liquid pressure with depth.	(3)						
10.	Distinguish between myopia and hypermetropia. Draw diagrams showing myopic and hypermetropic eye and how these defects can be corrected by using suitable lens. (5)								
Multip 11.	le Choice Questions Which of these is a contact	force?	(1 x 5 =5)						
	a) Friction c) Gravitational	b) Magnetic d) Electrostatic							
12.	 Ball bearings are useful because a) Rolling friction is more than sliding friction b) Rolling friction is less than sliding friction c) Rolling friction is equal to sliding friction d) None of these. 								
13.	If the angle between mirror and the incident ray is 60° then the angle of reflection will be a) 60° b) 15° c) 90° d) 30°								
14.	The splitting of white light i a) refraction c) lateral displacement	nto its constituent colours is called b) reflection d) dispersion							
15.	At what position of an obje a) Between F & 2F c) Between F & O	ct does a convex lens act as a magnifying b) Beyond F d) Beyond 2F	glass?						
SECTION B - CHEMISTRY (M. Marks : 30; Time : 1 hr.)									
1.	Differentiate between Malle	ability and Ductility.	(1)						
2.	a) What is activity series? Arrange the metals given below in the decreasing								
	order of reactivity: N		accicacing						

3.	Give the one characteristic properties and one important use of each of the following: i) Polythene ii) Melamine								
4.	Complete and balance the following reactions: i) Na + HCl \rightarrow ii) P + O ₂ \rightarrow iii) Al + H ₂ O \rightarrow								
5.	 i) List any two steps you can take to reduce the danger that plastics poses to the environment. ii) Write the disadvantages of synthetic fibres. (2 Points) iii) Why Rayon is called as artificial silk? 								
6.	 Give reason for the following: i) Utensils are made up of metals, handles are made up of wood. ii) Food items like pickles and curd should not be stored in metallic containers. iii) Sodium metal is stored in kerosene oil. 								
7.	 Name the following: i) The central element of all living matter. ii) An ore of aluminium. iii) The hardest non-metal. iv) Metal which is the best conductor of electricity. v) Non-metal which has very high melting and boiling point. vi) Metal which is mainly used for making electrodes. vii) Metal which is used to make Car radiators and Calorimeters. viii) Non-metal which is used in making matchboxes and in the fireworks industries. ix) Non-metal used in the electronic and computer industries. x) The gas produced when metal react with water. 								
8.	 i) What are mixed fibres? Name the component fibres of polycot. ii) Write any two uses of polyester. iii) Why electrical appliances and cables have a plastic coating? iv) What are the harmful effects of careless disposal of plastics? (2 Points) v) How does nylon derive its name? (1x5=5) 								
Multip	ble Choice Questions: (1x6=6)							
9.	Which of these metals cannot displace hydrogen from a dilute acid? a) Iron b) Zinc c) Silver d) Calcium								
10.	Which of these is a fibre derived from chemicals? a) Rayon b) Cotton c) Nylon d) Silk								
11.	Which non metal is used in the vulcanization of rubber? a) Phosphorous b) Sulpur c) Zinc d) Graphite								
12.	Which plastic material is used to make non-stick pans? a) Perspex b) Bakelite c) Teflon d) Nylon								
13.	Which of these is the most reactive metal? a) Magnesium b) Gold c) Platinum d) Sodium								
14.	What is the most common source for synthetic fibres? a) Wood b) Petroleum c) Plants d) Wool								

SECTION C - BIOLOGY (M. Marks : 30; Time : 1 hr.)

1.	Name i) ii) iii) iv)	ne the following:- Jelly like substance present in the cell. Sac like organelle in the plant cell which store food, water or waste. Rod shaped bacteria. Scientists who study micro organisms									-=2)
2.	a) b)	Why do you think curd sets faster in summer than in winters? Why should we wash our hands before handling food?								(1 x 2	=2)
3.	How d	oes a vaccine v	work?							(2)
4.	Which micro-organism is used to make bread soft and fluffy? What is the scientific reason behind it?								(2)	
5.	State t a) c)	he function of: lysosome golgi bodies			b) d)		itrosome loplasmic i	reticu	ulum.	(½ x 4	=2)
6.	Write	rite down the main points of cell theory.								(2)
7.	Draw a	a well labelled diagram showing purification of water in water works.								(2)
8.	Draw a well labelled diagram of a plant cell and also state any three differences between onion peel and cheek cell.							(5)		
9.	What i	s food poisonir	ng? Ex	xplain any	/ four n	neth	ods of food	d pre	eservation.	(5)
Multipl	e Choic	e Questions:								(1x6=	6)
10.	Water a) c)	cannot be mac boiling chlorination	le pota	able by b) d)	reverse filterat		mosis				
11.		of these donot moeba	: have b) \	-	· cell str		ıre? Euglena	d)	none of these		
12.		of these make Igae		own food Protozoa	by pho		nthesis? Fungi	d)	Yeast		
13.		of these cause Sewage fertilizers		r pollutior b) d)							
14.	The ki a) c)	nd of light that VIBGYOR UV	can k	ill germs b) d)	is visible SV	ligh	t				
15.		s prepared by f neat	ermer b)	ntation of grapes	sugar i		apple	d)	barley		

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