ST. XAVIER'S SENIOR SECONDARY SCHOOL, DELHI – 110054			
Class 9 23-7-2		Formative Assessment I in SCIENCE	Time : 1 hr. M. Marks : 20
PHYSICS (M. Marks : 07; Time : 20 mts.)			
1.	Give a	n example where a body appears to be at rest but actually it is in motion.	(1/2)
2.	A body is moving with a velocity of 15 m/s .If the motion is uniform what will be velocity after 10 s?		(1/2)
3.	Define velocity. Give an example where average velocity is zero in spite of non zero speed.		(1)
4.	Differentiate uniform & non uniform acceleration.		(1)
5.	A particle moves 3 m north then 4 m east & finally 6m south. Calculate distance travelled & displacement. Under what situation distance is equal to magnitude of displacement.		
6.		do you mean by retardation? A body starts rolling over a horizontal surface nitial velocity of 0.5 m/s ² How much time will it take to stop .	(2)
CHEMISTRY (M. Marks : 07; Time : 20 mts.)			
1.	Define a)	e the following terms :- Latent heat of fusion b) Diffusion	(1)
2.	Write	an activity to show that particles of matter are continuously moving.	(1)
3.	Differentiate between boiling and evaporation. (two points only)		(1)
4.	a) b) c)	Convert 270 K to Celsius scale. The boiling point of water is 100°C, convert it to Kelvin scale. Give any two factors which affect evaporation .	(2)
5.	Give ra a) b) c) d)	eason for the following :- Sponge is a solid but it can be compressed. We can easily move our hand in air but to move our hand through a solid we need a karate expert. Gases exert pressure on the walls of the container. We wear cotton clothes in summer season.	(2)
BIOLOGY (M. Marks : 06; Time : 20 mts.)			
1.	Give r a) b)	easons :- Mitochondria and chloroplasts are semi- autonomous cell organelles. A drop of ink is placed gently at the base of the beaker containing water by means of a dropper and water becomes uniformly coloured.	(½x2=1)
2.		would happen to a cell if it is placed in sugar solution ? Name the process nsible for it.	(1)
3.	What permits the cells of plants, fungi and bacteria to withstand very dilute external media without bursting?		(1)
4.	Differe	entiate between Prokaryotic and Eukaryotic cell. (any two points)	(1)
5.	State a)	the functions of the following :- Chloroplast b) B Chromoplast	(1)
6.	Draw	a neat and labelled diagram of Nucleus. (any four labellings)	(1)