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KENDRIYA VIDYALAYA, IIT CAMPUS, CHENNAI – 36 HOLIDAY ASSIGNMENT SCIENCE

CLASS -IX

Р	Н١	/S	ICS:

- I. GRAPH:
- 1. Derive graphically as well as mathematically the following:
- a) $s = u + \frac{1}{2}at^2$, b) v = u + at, c) $v^2 = u^2 + 2as$
- 2. Draw the distance time graph for uniform motion
- 3. Draw the velocity time graph for non uniform motion.

II. PROBLEMS:

- 4. During an experiment, a signal from a spaceship reached the ground station in 5min. what was the distance of the spaceship from the ground station? the signal travels at the speed of light, that is 3×10^8 ms -1.
- 5. A racing car has a uniform acceleration of 4 ms-1. What distance will it cover in 10s. after start.
- 6. A train traveling at a speed of 90 km h-1. Brakes are applied so as to produce a uniform acceleration of -0.5 ms-1. find how far the train will go before it is brought to rest.
- 7. A trolley, while going down on an inclined plane has an acceleration of 2cm s-2. What will be its velocity 3s after the start ?

CHEMISTRY:

III. FILL UPS :			
1. ln	the constituent p	particles are far apart.	
2. In liquids the const	ituent particles are	packed.	
3. IN	the constituent particles a	re closely packed.	
4. In gaseous state th	e intermolecular forces are	e very	
5. In a	the force of attra	action is very strong.	
6. IN gaseous state t	he molecules move freely,	therefore the	fast
7. The foul smell fron	n sewage is due to	of gases.	
	en surface, but a	does not have.	
9. The	causes cooling.		
10	state consists of super e	nergetic and super excited par	rticles.
IV. Define – melting μ	point, boiling point, sublima	ition, evaporation, volatile sub	stance
BIOLOGY:	PROJECT & SEMINAR		
V. Collect more infor	mation on ELECTRON MICF	ROSCOPE – components from I	net.
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