AL KHOZAMA INTERNATIONAL SCHOOL, DAMMAM

Affiliated to CBSE – New Delhi, No:5730019

Pre-Mid Term Examin	nation $(2017 - 2018)$
----------------------------	------------------------

Subject:Science

Date:11/06/2017 Class: 9		Set:A Time: 3 Hou Max. Marks	Time: 3 Hours Max. Marks: 80	
	Instructions to the Candidate	<u>S:</u>		
1	The question paper has 27 questions in al	II. All questions are compulsory.		
2	Questions from serial no 1 and 2 are very	y short answer questions. Each question		
	Carries1mark.			
3	Questions from serial no 3 to 5 are of 2	marks questions.		
4	Questions from serial no 6 to 15 are of 3	3 marks questions.		
5	Questions from serial no 16 to 21 are or	f 5 marks.		
6	Questions from serial no 22 to 27 are or	f 2 marks questions. They are practical based questions.		
1.	What is dry ice? How is it obtain	ed?	1	
2.	State first law of motion.		1	
3.	Find out the mass by volume per	centage of 20% solution of HCl acid.(Density =1.10gmL ⁻¹)	2	
4.	(a) Why are the wheels of vehicle	e provided with mud guards?	2	
5.	(b) A cricket player lowers his had How is endoplasmic reticulum in	and while catching a ball. Why? nportant for membrane biosynthesis?	2	
6.	Explain the methods of separation	on and uses: Centrifugation , Chromatography.	3	
7.	Compare the characteristics of su	uspension, true solution and colloid based on Particle size,	3	
	Appearance and Nature.			
8.	Define Latent heat of fusion. Whi	ch is more effective in cooling; Ice or water? Explain.	3	
9.	What happens to a cell when pla	ced in the following solution:	3	
	a. Hypotonic solution			

b. Hypertonic solution



17.	Mention the functions of following cell organelles with a labeled diagram: a)Nucleus b)Endoplasmic reticulum c) Mitochondria	5
18.	Describe the Nitrogen cycle with the help of a diagram.	5
19.	 (i) Name the property of bodies to resist a change in their velocity. (ii) What is relationship between force and acceleration? (iii)What name is given to the product of mass and velocity of a body? (iv) Which physical quantity corresponds to the rate of change of momentum? (v) Name the principle on which a rocket works. 	5
20.	 Account for the following : (a) Name the quantity which is measured by the area occupied below the velocity-time graph. (b) An object is moving in a certain direction with acceleration in the perpendicular directions. (c) Under what condition is the magnitude of average velocity of an object equal to its average speed? (d) An example of uniformly accelerated motion. (e) A body is moving along a circular path of radius (R). What will be the distance and displacement of the body when it completes half revolution? 	5
21.	(a) Derive position-time relation using graphical method. (b) A car accelerates uniformly from 18 km/h to 36 km/h in 5 seconds. Calculate the acceleration and the distance covered by the car in that time.	5
22.	A mixture of sand, ammonium chloride and iodine is heated in a china dish. a. What is changing into vapors and why? b. What is left in china dish?	2
23.	Four students were asked to add water to glucose powder, milk , sand and soil separately in four beakers. Classify the mixture as true solution, colloid and suspension.	2
24.	Describe what you will see when a mixture of iron and sulphur is heated in a hard glass tube.	2
25.	What are the major difference between cheek cells and onion peel cells?	2
26.	Why should water or glycerin be used for keeping or mounting the materials?	2
27.	A cell is a building unit of an organism. Comment.	2
