

RAMAGYA SCHOOL, NOIDA IX/SCIENCE/2017-18 OLYMPIAD PRACTICE WORKSHEET

Multiple choice questions:-

- 1. Melting is
 - (a) An endothermic reaction (c) both
 - (b) An exothermic reaction(d) none
- 2. Chromosomes are made up of
 - (a) DNA
- (c) DNA and protein
- (b) protein (d) RNA
- 3. A particle is moving in a circular path of radius r. The displacement after half a circle would be
 - (a) zero
- (c) 2r
- (b) πr (d) $2\pi r$
- 4. On converting 25°C, 38°C and 66°C to kelvin scale, the correct sequence of temperature will be
 - (a) 298K, 311K, 339K
- (c) 273K, 278K, 543K
- (b) 298K, 300K, 338K
- (d) 298K, 310K, 338K
- 5. Which of the following are covered by a single membrane?
 - (a) mitochondria (b) vacuole
 - (c)lysosome(d) plastid
- 6. Area under a v-t graph represents a physical quantity which has the unit
 - (a) $m^2(c) m^3$
 - (b) m(d) m/s
- 7. Which condition out of the following will increase the evaporation of water?
 - (a) Increase in temperature of water
 - (b) Decrease in temperature of water
 - (c) Less exposed surface area of water
 - (d) Adding common salt to water
- 8. Cell wall of which one of these is not made up of cellulose?
 - (a) Bacteria (c) hydrilla
 - (b) Mango tree
- (d) cactus
- 9. Slope of velocity -time graph gives
 - (a) The distance (c) the displacement
 - (b) The acceleration (d) the speed
- 10. In the sublimation process
 - (a) Solid changes directly to the vapour state
 - (b) Solid initially melts and then changes to vapour state
 - (c) Liquid changes to vapour state

	(d) None of the above			
11.	Kitchen of the cell is (a) Mitochondria (b) Endoplasmic reticulum	(c) chloroplast (d) golgi bodies		
12.	Acceleration of an object is equal to (a) speed /time (b) change in velocity / time	(c) velocity / time (d) change in speed / time		
13.	Alcohol exists as a liquid at room te (a) The intermolecular forces a other (b) Its melting point is below ro (c) It is highly compressible (d) Both (a) and (b)	re strong enough to keep its particles bound to each		
14.	Lysosomes arises from (a) Endoplasmic reticulum (b) Nucleus	(c) golgi apparatus (d) mitochondria		
15.	The velocity of a car increases from (a) 2 m / s ² (b) 20 m / s ²	36 km / hr to 108 km / hr in 10 s. The acceleration is (c) 3 m / s^2 (d) 30 m / s^2		
16.	Butter may be evaporated by (a) Heating and compression (b) Heating and decomposition (c) Cooling and decomposition (d) Cooling and compression			
17.	When the distance travelled by a bo (a) Uniform acceleration (b) Constant speed	ody is directly proportional to time it is travelling with (c) non-uniform acceleration (d) variable speed		
18.	Melting points of four solids A, B, C and D are 78°C, 262°C, 100°C and 180°C. Inter particle forces of attraction are in the order (a) A> C> D> B (b) B> C> D> A (c) A> D> C> B			
19.	Lipid molecules in the cell are synth (a) Smooth endoplasmic reticul (b) Rough endoplasmic reticul (c) Golgi apparatus (d) Plastids	lum		
20.	Amoeba acquires its food through a (a) Exocytosis (b) Plasmolysis	a process termed (c) endocytosis (d) both (a) and (b)		