



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

Multiple choice questions:-

1. The rate of change of displacement with time is called:  
(a) Speed (c) velocity  
(b) Acceleration (d) retardation
2. The distance covered in time  $t$  by a body having initial velocity  $u$  and having a uniform acceleration  $a$  is given by  $s = ut + \frac{1}{2}at^2$ . This result follows from :  
(a) Newton's first law (c) Newton's second law  
(b) Newton's third law (d) None of these.
3. The largest cell in the human body is:  
(a) Nerve cell (c) muscle cell  
(b) liver cell (d) kidney cell
4. A ball is thrown vertically upwards. It rises to a height of 50 m and comes back to the thrower,  
(a) the total distance covered by the ball is zero.  
(b) the net displacement of the ball is zero.  
(c) the displacement is 100 m.  
(d) none of these.
5. Camphor is purified by the process of  
(a) evaporation (b) distillation  
(c) sublimation (d) filtration
6. Centrosome is found in  
(a) Cytoplasm (c) nucleus  
(b) Chromosomes (d) nucleolus
7. On Kelvin scale  $0^{\circ}\text{C}$  is equal to  
(a) 273 K (c) -273 K  
(b) 0 K (d) 100 K
8. A body whose speed is constant  
(a) must be accelerated (c) might be accelerated  
(b) has a constant velocity (d) can not be accelerated.
9. When the distance that an object travels is directly proportional to the length of time it is said to travel with  
(a) zero velocity (c) constant speed  
(b) constant acceleration (d) uniform velocity

10. The power house of a cell is  
(a) Chloroplast (c) mitochondria  
(b) golgi bodies (d) nucleolus
11. The slope of speed-time graph gives  
(a) Speed (c) velocity  
(b) Acceleration (d) momentum
12. The amount of heat energy required to change 1 kg of solid into liquid at its melting point is called –  
(a) Melting point (c) latent heat of fusion  
(b) boiling point (d) latent heat of vaporization.
13. The density of water is \_\_\_\_\_ than that of ice.  
(a) More (c) Less  
(b) equal to (d) none.
14. In 12 minutes a car whose speed is 35 km/h travels a distance of  
(a) 7 km (c) 3.5 km  
(b) 14 km (d) 28 km
15. Which is called 'Suicidal bag' ?  
(a) Centrosome (c) lysosome  
(b) mesosome (d) chromosome
16. The temperature at which the solid melts to become a liquid at the atmospheric pressure is called –  
(a) Boiling point (c) melting point  
(b) freezing point (d) none of these.
17. The initial velocity of a body is  $u$ . It is under uniform acceleration  $a$ . Its velocity  $v$  at any time  $t$  is given by –  
(a)  $v = u + at^2$  (c)  $v = u + \frac{1}{2} at^2$   
(b)  $v = u + at$  (d)  $v = u$ .
18. The rate of evaporation does not depend on –  
(a) Temperature (c) Humidity  
(b) pressure (d) speed of wind.
19. A plant cell differs from an animal cell in the absence of  
(a) Endoplasmic reticulum (c) mitochondria  
(b) ribosome (d) centrioles
20. . SI unit of temperature is –  
(a) Kelvin (c) Celsius  
(b) Fahrenheit (d) Pascal