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OLYMPIAD PRACTICE WORKSHEET

- 1) When matter gets warmer, the atoms and molecules in that matter  
a) stand still      b) move faster      c) move slower      d) can't say
- 2) Higher the temperature of the body, \_\_\_\_\_ is the kinetic energy of the molecules of that body:  
a) higher      b) lower      c) same      d) none of these
- 3) Unit of heat energy is:  
a) degree      b) joule      c) kilogram      d) Pascal
- 4) Bodies transmitting heat via radiation  
a) do not require any medium  
b) are liquids only  
c) make heat travels in one direction only  
d) solids only
- 5) In Fahrenheit scale, water freezes at  
a)  $0^{\circ}\text{F}$       b)  $32^{\circ}\text{F}$       c)  $40^{\circ}\text{F}$       d)  $212^{\circ}\text{F}$
- 6) Sea breeze is caused due to  
a) conduction      b) convection      c) radiation      d) all of these
- 7) A polished silvery surface is  
a) good absorber of heat      b) good reflector of heat      c) poor reflector of heat  
d) none of these
- 8) The process by which heat comes from sun to the earth is  
a) conduction      b) convection      c) vaporisation      d) radiation
- 9) Mitochondria do not occur in  
a) ferns      b) bacteria      c) green algae      d) plant cell
- 10) Mitochondria are self-replicated organelles as they have  
a) thylakoids      b) oxysomes      c) ribosomes      d) DNA
- 11) Total number of water molecules produced per molecule of glucose during aerobic respiration is  
a) 10      b) 6      c) 12      d) 8

12) Respiration is a process in which

- a) energy is stored in the form of ADP.
- b) energy is released and stored in the form of ATP.
- c) energy is used up.
- d) energy is not released at all.

13) The breakdown of pyruvate to give  $\text{CO}_2$ ,  $\text{H}_2\text{O}$  and energy takes place in

- a) cytoplasm
- b) mitochondria
- c) chloroplast
- d) nucleus

14) The trachea is also known as

- a) lungs
- b) diaphragm
- c) windpipe
- d) bronchus

15) The tiny hair that keep mucus and dirt out of your lungs are called

- a) lung hair
- b) stubble
- c) bronchioles
- d) cilia

16) The respiratory system is made up of trachea, the lungs, and the

- a) liver
- b) diaphragm
- c) oesophagus
- d) pancreas

17) During respiratory exchange of gases take place in

- a) trachea and larynx
- b) alveoli present in lungs
- c) alveoli and throat
- d) throat and larynx

18) The cellular energy reserve in autotrophs is

- a) glycogen
- b) protein
- c) starch
- d) fatty acid

19) Which is the first enzyme to mix with food in the digestive tract

- a) pepsin
- b) cellulose
- c) amylase
- d) trypsin

20) During deficiency of oxygen in tissues of human beings, pyruvic acid is converted into lactic acid in the

- a) cytoplasm
- b) chloroplast
- c) golgi body
- d) mitochondria