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VII/SCIENCE/2017-18  
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