Sardar Kaurey Khan Public Higher Secondary School Muzaffargarh

Class: 9th Chapter: 1-9 Subject: Physics Dated: 20-04-2020 Time: 2 Hours

(Objective)

Q.1 Select the correct option. (12)

1- The work done will be maximum, when the angle between the force and distance is
a) 45° b) 0° c) 90° d) 180°

2- Hydrocarbon + oxygen $\longrightarrow$ carbon dioxide +
a) water b) water + oxygen c) water + heat energy d) none

3- The efficiency of electric motor is
a) 88% b) 80% c) 55% d) 90%

4- 1 liter = _____ m^3
a) 10^3 b) 10^2 c) 10^{-3} d) 10^{-6}

5- The density of aluminum = ____ Kgm^{-3}
a) 1000 c) 89 d) 2500 d) 2700

6- 1 Pa = _____
a) Nm b) Nm^{-1} c) Nm^2 d) Nm^{-2}

7- Boiling pt. of mercury is ____ c^o
a) -59 b) -357 c) 357 d) -39

8- S1 unit of specific heat capacity is
a) JKg-1 b) 1 Kg-1 K-1 c) J K-1 d) none

9- Water freezes at
a) 0of b) 320f c) -273k d) ok

10- Colored surface is a ____ emitter.
a) good b) bad c) best d) worst

11- In solids, heat is transferred by
a) radiation b) conduction c) convection d) absorption

12- In gases, heat is mainly transferred by
a) molecular collision b) conduction c) convection d) radiation

---

(Subjective)

Q.2 Write short answer of the following. (10)

i- Convert 1120 watts into hp.
ii- Define efficiency and what is its unit?
iii- Write the name of the parts of solar house heating system.
iv- Define mechanical energy.
v- Define the unit of power.
Vi- Justify the statement that different energy resources are causes of pollution.
vii- Write some important features of kinetic molecular model of matter.
viii- What is the difference between stress and pressure.

Q.3 Write short answer of the following. (10)

i- Why a glass tube 10m long is required for water barometer?
ii- State Archimedes principal.
iii- Why a log of wood floats on water whereas a steel pin sinks?
iv- Define tensile strain. Write its unit.
v- What is thermal equilibrium?
vi- What should be the properties of thermometric liquid?
vii- What is internal energy of a body?
viii- Convert 50^oC into Fahrenheit scale.

Q.4 Write short answers of the following. (any five). (10)

i- Define Heat capacity.
ii- What is latent heat of fusion?
iii- What do you know about anomalous expansion of water?
iv- Define convection.
V- Why Styrofoam boxes are used to keep food hot or ice cream cold for long time?
vi- Give some uses of non conductors.
vii- How do thermals help birds to fly for hours without flapping their wings?
viii- Write some factors that affect rate of emission of radiation.

Part II

Note: Attempt any two questions. (18)

Q.5 (a) State Pascal's law. Write its applications. (5)
(b) A man has pulled a cart through 35m applying a force of 300 N. find work done by man. (4)

Q.6 (a) Define evaporation. Write factors that affect rate of evaporation. (5)
(b) What would be the volume of ice formed by freezing 1 liter of water? (4)

Q.7 (a) Write a note on thermal conductivity. (5)
(b) How much ice will be melt by 50,000J of heat? (4)