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Level-3, Sem -1 DVOC (Ref & Air Cond. Medical Imaging Tech, Auto, Servicing, ITM, PT, SD, AMT, FP, EMS)
Subject : Applied Physics

Time : 2 Hrs. M.M. : 50

SECTION-A

Note: Very short answer questions. Attempt all ten questions. (10x1=10)

Q.1 Total kinetic energy of all molecules is called_____

Q.2 Process of rise or fall of liquid in a capillary tube is called _____

Q.3 Write name of two fundamental units.

Q.4 Give two examples of physical quantity

Q.5 Sl unit of Temperature is _____

Q.6 Write condition of resonance

Q.7 Very high frequency sound waves are called _____

Q.8 Write full form of M.K.S system.

Q.9 Write dimensional formula of velocity.

Q.10 In reflection of light angle of incidence is always equal to

SECTION-B

Note: Short Answer Questions. Attempt any six questions out of eight questions. (6x5=30)

Q.11 Explain any two laws of Heat radiations.

Q.12 Convert force of 5 Newton into dynes.

Q.13 Define viscosity and derive expression for coefficient of viscosity

Q.14 Derive formula for time period of spring mass system.

Q.15 Explain reflection of light with laws.

Q.16 Explain principles for measurement of temperature.

Q.17 Explain any two applications of ultrasonic waves in industry.

Q.18 Explain molecular theory of surface tension.

SECTION-C

Note: Long answer questions. Attempt any one question out of two questions. (1x10=10)

Q.19 Explain principle construction and working of Platinum Resistance Thermometer

Q.20 a) Write note on nature of light.

b) Explain working of Epidiascope.