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188413

Level 3 / 1st. Sem. / 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 type questions. All questions are compulsory (10x1=10)

Q.1 S.I. unit of Electric charge is _____

Q.2 Dimensional formula for work is _____

Q.3 Define Fundamental unit.

Q.4 Write the co-efficient of viscosity.

Q.5 Define Conduction.

Q.6 Device that produces ultrasonic wave is _____

Q.7 Define Heat.

Q.8 Give an example of forced vibration.

Q.9 Give an use of Overhead Projector.

Q.10 Formula of frequency of vibration in spring Mass system is _____.

SECTION-B

Note: Short answer type questions. Attempt any six questions out of eight questions. 6x5=30

Q.11 Write down the dimensional formula of Area, Volume, Acceleration, Force and Velocity.

Q.12 Differentiate between free and forced vibrations.

Q.13 Explain in brief the construction of viscometer.

Q.14 State the laws of reflection.

Q.15 Write down the different scales of measuring temperature.

Q.16 Define ultrasonic waves and write down its applications.

Q.17 Briefly describe the concept of Capillary Action.

Q.18 Write down the properties of heat radiation.

SECTION-C

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

Q.19 i) Explain in brief the reflection and refraction of a wave from a plane surface.

ii) Convert force of 200 Newton into dyres.

Q.20 Explain piezoelectric method of ultrasonic wave Generation.