

No. of Printed Pages : 4

Roll No.

188413

**DVOC
Trade (Ref & Aircond, Med Imaging)
Subject : Applied Physics**

Time : 2 Hrs.

M.M. : 50

SECTION-A

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

- Q.1 Give two examples of Derived units. (CO1)
- Q.2 Write dimensional formula of velocity and force. (CO1)
- Q.3 Define Cohesive force. (CO2)
- Q.4 Write formula of Surface Tension. (CO2)
- Q.5 Write condition of resonance. (CO3)
- Q.6 Write one scale for measurement of temperature. (CO4)
- Q.7 Frequency of ultrasonic waves is_____.
- Q.8 Heat is _____ of all molecules of body. (CO5)
- Q.9 Ultrasonic waves are used of_____.(CO5)
- Q.10 Light is a form of_____ (CO6)

SECTION-B

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

- Q.11 Explain uses of Dimensional analysis. (CO1)
- Q.12 Convert 5 Newton into Dynes. (CO1)
- Q.13 Define viscosity. Derive formula for coefficient of viscosity. (CO2)
- Q.14 Explain free and forced vibrations with examples. (CO3)
- Q.15 Explain any two scales for measurement of temperature. (CO4)
- Q.16 Explain any one application of ultrasonic waves in industry. (CO5)
- Q.17 Define reflection explain laws of reflection. (CO6)
- Q.18 Explain magnetostriction effect for production of ultrasonic waves. (CO5)

SECTION-C

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

- Q.19 Explain principle, construction and working of overhead projector. (CO6)
- Q.20 Explain principle, construction and working of visco meter. (CO2)

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