

[4117] - 3
F.Y. B.Sc.
PHYSICS - I
Mechanics, Heat and Thermodynamics
(Paper - I) (2008 Pattern) (41210)

*Time : 3 Hours]**[Max. Marks : 80**Instructions to the candidates:-*

- 1) All questions are compulsory.*
- 2) Figures to the right indicate full marks.*
- 3) Use of log table and calculator is allowed.*
- 4) Neat diagrams must be drawn wherever necessary.*

Q1) Attempt all of the following :

- a) State and explain Newton's third law of motion. [2]
- b) The initial velocity of a body is 16 m/s. What is its velocity after 2.5 sec if it accelerate uniformly at 4.5 m/s^2 . [2]
- c) State two factors which affect the surface tension. [2]
- d) Give the statement of Bernoulli's theorem. [2]
- e) State first law of thermodynamics. [2]
- f) A reversible refrigerator works between 0°C and 27°C . Calculate the coefficient of performance. [2]
- g) What are the advantages of mercury thermometer. [2]
- h) Explain the reversible process. [2]

Q2) Attempt any four of the following

- a) Describe the Jaeger's method to determine surface tension of a liquid. [4]
- b) What is average velocity? Interpret the average velocity using $x - t$ graph. [4]
- c) What is pseudo force? Illustrate with example. [4]
- d) Two bodies of mass 20 kg and 30 kg are tied together by light string and are placed on frictionless horizontal surface. when first mass is pulled by a force F an acceleration 10 m/s^2 is produced in both masses. Calculate
 - i) The magnitude of the force
 - ii) Tension in the string. [4]

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Léo Pomar



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University Physics (For Pune University), 11/E ,2008-09

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