MIDTERM EXAM 1 QUESTIONS
(final)

1. States of matter
2. Density and pressure
3. Variation of pressure with depth
4. Buoyant force, Archimedes’s principle
5. Motion of fluids, continuity equation
6. Motion of fluids, Bernoulli equation
7. Temperature, 0th law of thermodynamics, temperature scales
8. Thermal expansion of solids and liquids
9. Macoscopic description of an ideal gas
10. The kinetic theory of gases
12. Latent heat and phase change.
15. Work in thermodynamic processes. 1st law of thermodynamics.
16. 1st law of thermodynamics: isobaric processes
17. 1st law of thermodynamics: adiabatic processes
18. 1st law of thermodynamics: isovolumetric processes
19. 1st law of thermodynamics: isothermic processes
20. Heat engines and second law of thermodynamics
21. Second law of thermodynamics, Carnot engine
22. Entropy