

Council for Technical Education and Vocational Training
Office of the Controller of Examinations
Santhimi, Bhaktapur

Regular/Back Exam-2074, Falgun /Chaitra

Program: Diploma in Civil/Architecture/Electronics Full Marks: 60
/ Ref & AC/ Mechanical/Electrical
/Automobile /IT/Computer/E&E
/Geomatics Engineering

Year/Part: VI [New+ Old Course]

Pass Marks: 24

Subject: Physics

Time: 3 hrs

Candidates are required to give their answers in their own words as far as practicable. The figures in the margin indicate full marks.

Group "A" Attempt Any Three questions.

[3x6=18]

1. State the principle of conservation of linear momentum. Show that principle follows Newton's third law of motion.
2. What is satellite? Derive an expression for the escape velocity from the surface of earth?
3. Derive the relation $C_p = C_v + R$. Where symbols have their usual meanings. C_p is always greater than C_v , why?
4. Define magnetic field intensity. Derive an expression for the magnetic field intensity at a point on the equatorial line of a bar magnet.

Group "B" Attempt any Six questions:

[6x3=18]

5. Write the differences between scalar and vector product.
6. Prove that coefficient of static friction is equal to the tangent of angle of repose.
7. What is simple harmonic motion? Show that the motion of simple pendulum is simple harmonic motion.
8. Define coefficient of superficial expansion of a solid and establish the relation between coefficient of superficial expansion and coefficient of linear expansion of a solid.
9. Define isothermal process. Derive the expression for the work done in isothermal process.
10. Define refractive index. Show that refractive index:
$$(\mu) = \frac{\text{Real depth}}{\text{Apparent depth}}$$
11. Deduce the mirror formula using concave mirror. /
12. Explain the domain theory of ferromagnetism.

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