

Council for Technical Education and Vocational Training
Office of the Controller of Examinations
Sanothimi, Bhaktapur
Regular/ Back Exam - 2073

Program: Diploma in Civil/ /Electronics/ Electrical
/Electrical & Electronics/ Computer/IT/
Architecture/ Mechanical /Automobile /
Geomatics Engineering (New Course)

Full Marks: 60
Pass Marks: 24

Year/Part: III

Time: 3 hrs

Subject: Engg. Physics - I

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.

[3 × 6 = 18]

- ✓ 1. State the parallelogram law of vector addition. Hence, derive the magnitude and direction of the resultant vector.
- ✓ 2. What is simple harmonic motion? Show that the motion of simple pendulum is simple harmonic and hence derive its time period.
- ✓ 3. Prove that $C_p - C_v = R$ for 1 mole of an ideal gas. Explain why C_p is greater than C_v .
- ✓ 4. What is Lens Maker's formula? Derive the lens maker's formula for a convex lens.

Group 'B'

Attempt (Any Six) questions.

[6 × 3 = 18]

- ✓ 5. Prove that the total mechanical energy of a freely falling body under the gravity is constant.
- ✓ 6. Obtain an expression for orbital velocity of an artificial satellite.
- ✓ 7. State principle of conservation of angular momentum. How is angular momentum related to the torque acting on a body?
- ✓ 8. Does the supplied heat always increase the temperature of a substance? Explain.
- ✓ 9. State and explain Stefan's law of black body radiation.
10. Show that when a mirror is rotated through certain angle, the reflected ray is deviated through double the angle.

Engineering Physics Diploma 33000exam Paper

JR Anderson



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