# 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: I/I Subject: Engg. Physics - I 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.

 $[3 \times 6 = 18]$ 

- State the parallelogram law of vector addition. Hence, derive the magnitude and direction of the resultant vector.
- What is simple harmonic motion? Show that the motion of simple pendulum is simple harmonic and hence derive its time period.
- Prove that C<sub>p</sub> C<sub>v</sub> = R for 1 mole of an ideal gas. Explain why C<sub>p</sub> is greater than C<sub>v</sub>.
- What is Lens Maker's formula? Derive the lens marker's formula for a convex lens.

# Group 'B'

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# Attempt (Any Six) questions.

[6 x 3=18]

- Frove 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?
- 6. Does the supplied heat always increase the temperature of a substance? Explain.
- 9. State and explain Stefan's law of black body radiation.
  - Show that when a mirror is rotated through certain angle, the reflected ray is deviated through double the angle.

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