

**FIRST SEMESTER DIPLOMA EXAMINATION IN
ENGINEERING/TECHNOLOGY — MARCH, 2016**

ENGINEERING PHYSICS – I

(Common to all branches except CABM and DCP)

[Time : 3 hours]

(Maximum marks : 100)

PART — A

(Maximum marks : 10)

Marks

I. Answer all questions in one or two sentences. Each question carries 2 marks.

1. What are the advantages of SI over all other unit systems?
2. Define the terms resultant and equilibrant of two forces.
3. Distinguish between stress and strain. Give their units.
4. What is meant by resonance?
5. Define simple harmonic motion. Give two examples for simple harmonic motion.

(5×2 = 10)

PART — B

(Maximum marks : 30)

II. Answer any five questions from the following. Each question carries 6 marks.

1. State the law of motion that helps us to measure force. Define force and explain how force is measured?
2. Give an example to illustrate the third law. Explain the principle of rocket propulsion and recoil of a gun.
3. What is meant by resolution of a vector? What is rectangular resolution? Give two rectangular components of force 4N acting at an angle 30° to the horizontal.
4. The largest resultant of two forces P and Q is 31N and the least resultant is 17N. What is the resultant if P and Q act at right angles?
5. Describe an experiment to find the Young's modulus of a wire.
6. The volume of a metal sphere of radius 7cm is decreased by 0.019 centimeter cube when subjected to a pressure of 124 kN/m². Find out its bulk modulus.
7. Derive the expression for the fundamental frequency and second harmonic in an open pipe of length L.

(5×6 = 30)

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