

DIPLOMA EXAMINATION IN ENGINEERING/TECHNOLOGY/
MANAGEMENT/COMMERCIAL PRACTICE — OCTOBER, 2018

BASIC MECHANICAL ENGINEERING

[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. List any four non-destructive test of materials.
2. Define boiler accessories.
3. State the functions of piston rings.
4. Name any four non - conventional energy power plants.
5. List the composition of cast iron.

(5×2 = 10)

PART — B

(Maximum marks : 30)

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

1. Illustrate any six important thermal and chemical properties of materials.
2. Write and explain the classification of steel depending on carbon content.
3. List the important mountings and accessories used in boiler.
4. State important classification of steam engines.
5. List out important parts of internal combustion engines.
6. Describe geothermal power plant.
7. Explain the working of wind power plant.

(5×6 = 30)