

SECTION-B

Note: Short answer type questions. Attempt any six questions out of Eight questions. (6x5=30)

- Q.11 Define volumetric strain.
- Q.12 Explain torsional rigidity of the shaft.
- Q.13 Write short note on simply supported beam and overhanging beam.
- Q.14 How shear force and bending moment related to each other?
- Q.15 Write short note on use of belts in power transmission in specific conditions.
- Q.16 How power is transmitted by hollow shaft?
- Q.17 What is loss of head due to friction?
- Q.18 How pumps are classified?

SECTION-C

Note: Long answer type questions. Attempt any one question out of two questions. (1x10=10)

- Q.19 Explain with neat sketch the working principle of Pelton wheel turbine.
- Q.20 Draw shear force and bending moment diagram for a cantilever of length 6m and point load of 5KN is applied at the free end.

No. of Printed Pages : 2

Roll No.

188744

(Level 4)

**2nd Sem / (DVOC) (Industrial Tool Manufacturing)
Subject : General Mechanical Engineering - I**

Time : 2 Hrs.

M.M. : 50

SECTION-A

Note: Very short answer type questions. All questions are compulsory. (10x1=10)

- Q.1 State Hook's law.
- Q.2 What is Temporary fastening?
- Q.3 Define shear force.
- Q.4 What is UDL?
- Q.5 Which is a positive drive: belt drive or chain drive?
- Q.6 What are bevel gears?
- Q.7 What is viscosity?
- Q.8 Define the term pressure.
- Q.9 State velocity head.
- Q.10 What is turbine.