

### SECTION-B

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

- Q.11 Define bolted joint . Write its advantage and disadvantage.
- Q.12 Define sagging and hogging bending moment.
- Q.13 What is belt and Explain its types.
- Q.14 Define volumetric strain, Bulk modulus and modulus of elasticity.
- Q.15 State pascal's law
- Q.16 Write the limitations of Bernoulli's theorem.
- Q.17 Differentiate between centrifugal pump and reciprocating pump .
- Q.18 What is gear ? Write its classifications.

### SECTION-C

**Note:** Long answer type questions. Attempt any one questions out of two questions. (10x1=10)

- Q.19 Derive an expression for rate of flow or discharge through a venturi meter.
- Q.20 Explain the construction and working of Pelton wheel turbine with the help of neat sketch.

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Level 4, DVOC - Production Technology

Subject : General Mechanical Engineering - I

Time : 2 Hrs.

M.M. : 50

### SECTION-A

**Note:** Very short answer type questions . Attempt all ten question (10x1=10)

- Q.1 The S.I unit of stress is \_\_\_\_\_
- Q.2 Define shear stress.
- Q.3 Define simply supported Beam.
- Q.4 The positive bending moment is also known as \_\_\_\_\_
- Q.5 Name different types of gears.
- Q.6 Define circular pitch.
- Q.7 Write the S. I unit of bending moment.
- Q.8 What are helical-gears ?
- Q.9 Define weight density of fluid
- Q.10 Define Rate of flow

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