

## **SECTION-B**

**Note:** Short answer type questions. Attempt any six questions out of Eight questions.  $(6 \times 5 = 30)$

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.  $(10 \times 1 = 10)$

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  $(10 \times 1 = 10)$

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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