

### SECTION-B

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

- Q.11 Define riveted joint. Write the advantage and disadvantage
- Q.12 What is S.F.D and B.M.D?
- Q.13 What is pulley? And write its classifications.
- Q.14 Define Poisson's ratio, modulus of rigidity and modulus of elasticity.
- Q.15 State Bernoulli's Theorem.
- Q.16 Write various minor head losses in pipe.
- Q.17 Differentiate between centrifugal pump and reciprocating pump.
- Q.18 Differentiate between torque and torsion.

### SECTION-C

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

- Q.19 A circular shaft of 60 mm diameter is running at 1050 r.p.m If the shear stress is not to exceed 50MPa, find the power which can be transmitted by the shaft.
- Q.20 Explain the construction and working of centrifugal pump with the help of neat sketch.

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**DVOC (Level 4)Semester-II**  
**Trade- Production Technology**  
**Subject : General Mechanical Engineering -I**

Time : 2 Hrs. M.M. : 50

### SECTION-A

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

- Q.1 The S.I Unit of strain is .....
- Q.2 Define strain.
- Q.3 Define Cantilever Beam.
- Q.4 Define point of Contraflexure.
- Q.5 Name Different types of belts.
- Q.6 Define Module.
- Q.7 Write the S.I unit of Torque.
- Q.8 What are spur gears?
- Q.9 Define mass density of fluid.
- Q.10 Bernoulli's theorem deals with the law of conservation of .....

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