

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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