VET BVL POLYTECHNIC
JP Nagar, Bangalore
Department of Mechanical Engineering

Date: 28/12/2020 I Internals Sub: Applied Thermal Engg. Time: 10-11am
Class: V sem Marks: 20

Note: Answer all questions

1. Define the following-Dry saturated steam, Enthalpy of super heated steam, saturation tempt, Entropy, Internal Energy.
2. Steam enters an engine at a pressure of 12 bar with a 65^0C super heat. It is exhausted at a pressure of 0.15bar and 0.95 dry. Find the drop in enthalpy of the steam. Use steam tables only
3. List both the boiler mountings and accessories
4. Differentiate between water tube and fire tube boilers.

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Date: 28/12/2020 I Internals Sub: Mechanics of Machines Time: 10-11am
Class: III sem Marks: 20

1. Define kinematic chain. Name the different types of kinematic chains.
2. Explain with a neat sketch Beam engine

   OR

   Explain with a neat sketch Four bar chain.
3. Explain with a neat diagram stepped or cone pulley
4. What are the advantages of flat belt drive over V-belt.

   OR

   What are the types of belt drives. Explain cross belt drive.