

S.B. Roll No.....

**HYDRAULICS AND PNEUMATICS**  
**4<sup>th</sup> Exam/Mech./4853/Feb'2021**  
**(For 2018 Batch Onwards)**

**Duration: 1.15Hrs.**

**M.Marks:25**

**SECTION-A**

**Q1. Attempt any three questions.**

**3x5=15**

- i. Define the following. a) Capillarity b) Cohesion
- ii. With a neat sketch show construction and working of a Bourdon's tube pressure gauge.
- iii. Write a note on surge tank with sketch.
- iv. Explain a hydraulic door closer.
- v. Write a note on single acting hydraulic reciprocating pump.
- vi. Explain with a neat sketch cartridge type oil filter.
- vii. Define the following. a) Steady and unsteady flow b) Laminar and turbulent flow

**SECTION-B**

**Q2. Attempt any one question.**

**1x10=10**

- a. What is venturimeter? Explain with neat sketch.
- b. Write a short note on a syphon.
- c. What is the difference between Impulse and reaction turbine?
- d. What is functional of each component in a hydraulic system?