

NED UNIVERSITY OF ENGINEERING & TECHNOLOGY
FINAL YEAR (CHEMICAL ENGINEERING)
MIDTERM EXAMINATION 2021
BATCH 2019

Time: 80 min
 Max. Marks: 20

Dated: 06-12-2022

CHEMICAL PLANT DESIGN (CH-414)

Instructions:

- i. Attempt all questions.
- ii. Draw a neat and clean diagram necessary.

Question No. 01:

(CLO-1 Taxonomy Level C2- 10 Marks)

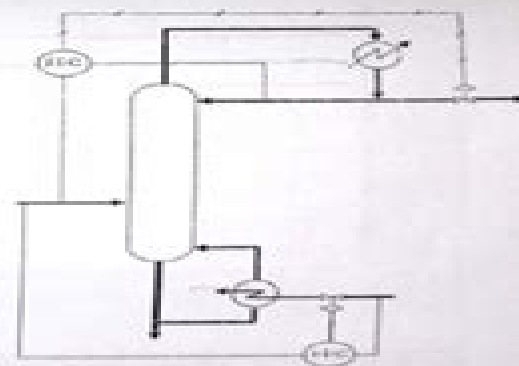
PREPARE a comprehensive design report of a pumping system in which a liquid is contained in a reactor vessel at 11.5 bar absolute pressure. It is transferred to a storage vessel through a 50mm internal diameter commercial steel pipe (roughness = 0.046 mm). The storage vessel is nitrogen blanketed, and pressure above the liquid surface is kept constant at 1500 N/m² gauge. The total run of pipe between the two vessels is 200 m. The miscellaneous losses due to entry and exit losses, fittings, valves, etc., amount to 800 equivalent pipe diameters. The liquid level in the storage vessel is at an elevation 20 m below the level in the reactor. A turbine is fitted in the pipeline to recover the excess energy that is available, over that required to transfer the liquid from one vessel to the other. Estimate the power that can be taken from the turbine, when the liquid transfer rate is 5000 kg/h. Take the efficiency of the turbine as 70%. The properties of the fluid are density 895 kg/m³, viscosity 0.76 mNm⁻²s.

$$\Delta p_f = 8f \left(\frac{L}{d} \right) \frac{\rho u^2}{2}$$

Question No. 02:

(CLO -2 Taxonomy Level C5- 07 + 03 Marks)

- a) As a Process Design Engineer, you are required to **ASSESS** a distillation column using HAZOP study that separates benzene from toluene using a control scheme shown in Figure. Make a practice **HAZOP** study of the plant section and add any instrumentation that is needed to develop the full P and I diagram. The figure describes the composition control in which top product take-off and boil-up controlled by feed. Take any two parameters to solve this case.
- b) The location of the plant can have a crucial effect on the profitability of a project and the scope for future expansion. Many factors must be considered when selecting a suitable site. You are required to **ASSESS** any four site consideration factors as per their importance.



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