V.P& R.P.T.P SCIENCE COLLEGE
B.Sc (Fifth semester)
INDUSTRIAL CHEMISTRY(Traditional)
Monday 7 /10 /2013
Subject code: US05CICH06
Internal exam

Time: 3.30 to 5 .00 pm   Total marks:30

Q1. Select right option from among the given in following question.   [6]

1 Fluids which resist a small stress indefinite but flow linearly under the action of large shear stress is known as   .

  (a) In-Compressible fluid. (b) Hydro dynamic. (c)   Bingham Fluid. (d) Laminar flow.

2 Bernoulli's theorem is simple a………………………………..

  (a) Material balance.(b) energy balance.(c) Thermal energy.(d) kinetic energy.

3 The overall resistant of heat flow from hot fluid to cold fluid is ………………………

  (a) Resistance offered by hot fluid   (b) Resistance offered by Metal wall. (c) Resistance offered by film of cold fluid. (d)All of above.

4 The equipment which removal of latent from the process fluid………………………

  (a) Condenser. (b) Cooler. (c) Chiller. (d)All of above.

5 Extended surface exchanger ……………………………

  (a) Fins (b) pipe (c) shell (d) tube.

6 The height of the baffle is…………………… Of the inside diameter of shell.

  (a) 80%. (b) 75%. (c) 40%. (d) 90%.

Q2. Answer any three of the following.   [6]

  1 What are pipe fittings? List them.

  2 Explain three way of heat transfer.

  3 Explain Pressure head & Pressure energy.

  4 Define laminar flow turbulent flow.

  5 What is clearance?

  6 What is tube peach?

Q3   1 Write not on U- Tube manometer.   [6]

    2 Write classification of fluid based on viscosity.

                                        OR

Q3   Derive Bernoulli's theorem   [6]

Q4   Derive an equation from heat flow through Series   [6]

                                        OR

Q4.   1. Write an equation for heat flow from Sphere.   [6]

      2 What to do mean about L.M.T.D?

Q5   Write note about heat extended surface exchanger.   [6]

                                        OR

Q5   Write note on shell and Tube heat exchanger.   [6]

*******************BEST OF LUCK********************