



V.P. & R. P. T. P. SCIENCE COLLEGE  
INDUSTRIAL CHEMISTRY  
B. Sc. - Semester – V

COURSE NO: US05CICH05

Date & Day: 9/10/19 Wednesday

TIME: 11.00 A.M TO 12:15 P.M

TOTAL MARKS – 25

Q.1 Answer the following MCQs (05)

- 1) The filter medium used for an alkali slurry is .....  
(a) Acrylic (b) saran (c) Nylon cloths (d) Rayon
- 2) Filter aid operates in the range of \_\_\_\_\_  
a) 10-15  $\mu\text{m}$  b) 20-25  $\mu\text{m}$  c) 5-50  $\mu\text{m}$  d) 1-50  $\mu\text{m}$ .
- 3) The process in which the fall of the particle in a gravitational field through a stationary fluid is not affected by the walls of container and other particles is refer as .....  
a) Hindered settling b) Free settling c) sedimentation d) None
- 4) Grizzlies are used to separating  
a) Coarse solids b) intermediate solids c) fine solids d) both A & B
- 5) Size reduction machines are commonly reduce the size of solids by \_\_\_\_\_  
(a) Compression (b) impact (c) attrition (d) all of these

Q.2 Write notes on Plate and frame filters. (05)

OR

Q.2 Write a short note on: filter media & filter aid. (05)

Q.3 Write a short note on: Magnetic drum separators. (05)

OR

Q.3 Write notes on: Froth flotation cell. (05)

Q.4 Explain swirling and vortex. Also write how we can prevent swirling and vortex. (05)

OR

Q.4 Write basic components of screw conveyer and its functions. (05)

Q.5 Write notes on: (1) jaw crusher (2) Roll crusher (05)

OR

Q.5 Explain working of grizzlies and trammels. (05)