



VITHALBHAI PATEL & RAJRATNA P.T. PATEL SCIENCE COLLEGE

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T.Y. B.Sc. SEM: V

INTERNAL TEST

DATE: 06th Oct. 2018

SUB: INDUSTRIAL CHEMISTRY

TIME: 10:00 am to 12:00 pm

SUB CODE: US05CICH05

TOTAL MARKS: 50

Q1 MCQ.

1. The filters used to remove small amounts of solids to produce sparkling clear liquids is known as -----

(a) Drum filter (b) Clarifying filters (c) rotatory filter (d) all of these.

2. The filter medium used for an alkali slurry is -----

(a) Nylon cloths (b) Canvas cloth (c) Filter aids (d) cotton cloth

3. The settling rate of particle depends upon its -----

(a) Size (b) density (c) concentration of solids (d) all of these

4. In a cyclone separator separation is done using -----

(a) Centrifugal force (b) gravitational force (c) Inertia force (d) viscous force

5. Gizzlies are used to separating

(a) Pores particle (b) Crystalline particle (c) Fine solid (d) All of these.

6. To get a fine powder from its granules the equipment used is _____

(a) Ball Mill (b) Roll mill (c) Jaw crusher (d) All of these.

7. Size reduction machines are commonly reduce the size of solids by _____

(a) Compression (b) impact (c) attrition (d) all of these.

8. The minimum speed at which centrifuging occurs is called the ___ speed of mill.

(a) Critical speed (b) High speed (c) low speed (d) moderate Speed.

Q2 Answer the following in short. (Attempt Five, each two marks)

[10]

1. List different filter media.

2. Classify the filters.

3. What is sedimentation?

4. Explain: Terminal settling velocity and Hindered settling.

5. State various types of mixing.

6. Sketch the type of impellers.

7. Write classifications of size reduction equipments and screening devices.

8. Write difference between crushing and grinding.

Q3. Plate and frame filters

[08]

OR

Q3. Write the note on Leaf filters

[08]

Q4. Write about Double cone classifier

[08]

OR

Q4. Explain Electrostatic separators.

[08]

Q5. Write in detail about impellers and various design of impellers.

[08]

OR

Q5. Write basic components of screw conveyer and its functions.

[08]

Q6. Write notes on jaw crusher

[08]

OR

Q6 Write about Ball mill

[08]