

- vii. Draw diagram and explain working of mixing tank.
viii. Explain working of propeller impeller.
ix. Explain homogeneous and heterogeneous mixing.
x. Write classification of size reduction equipments.
xi. State Rittinger's law and Kick's law
xii. What is the difference between Blake jaw crusher and Dodge Jaw crusher.
- Q.3 Write notes on : i) Plate and Frame filters [10]
ii) Rotary filter
- OR**
- Q.3 Write notes on : i) Suspended Batch Centrifugal [10]
ii) Filter medium and its characteristics
- Q.4a) Describe Magnetic Drum Separator. [5]
b) Explain working of Double cone classifier.
- OR**
- Q.4a) What is sedimentation? With the help of diagram explain working of continuous [5]
thickener.
b) Explain the laboratory batch sedimentation test.
- Q.5a) Discuss the terms "Swirling and Vortex". Also describe their preventive [5]
measures.
b) Discuss Screw conveyor. [5]
- OR**
- Q.5a) With the help of diagram explain working of Belt conveyor. [5]
b) Write a note on: i) Equipments used for mixing Viscous masses. [5]
- Q.6a) Derive an equation for angle of nip in crushing rolls. [5]
b) Differentiate Grizzlies and Tromels. [5]
- OR**
- Q.6a) Write a note on: Jaw Crusher. [5]
b) Write the difference between open circuit and closed circuit grinding. [5]

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