

A.P. 1 - 2015

Semester-III, B.Sc. (Industrial Chemistry) Examination

Paper- IC-301: Material Science-I

Subject Code: 3795

Time: 2.30 Hours

Total Marks: 70

- Que.1 (A) How industrially Steel carbon was manufactured? Explain it in detail. 10
(B) Give only reaction of solvay soda process 04
OR
- Que.1 (A) Discuss about the steel alloys manufacturing. 10
(B) List out minerals of aluminium. 04
- Que.2 (A) Discuss industrial production of elemental sulphur. 10
(B) With appropriate example explain fossil fuel. 04
OR
- Que.2 (A) Discuss industrial production of phosphorus pentoxide with flow sheet diagram. 10
(B) Explain about the micro constituents in Aluminium alloys. 04
- Que.3 (A) What is Oleum? Discuss its production by contact process. 10
(B) What is electrolysis? Discuss electrolysis of zinc. 04
OR
- Que.3 (A) What is fuel? State & explain the essential requirements of fuels. 10
(B) Write about calorific value of fuels. 04
- Que.4 (A) Give industrial production of soda ash with flow sheet diagram. 10
(B) Give applications of silicon carbide. 04
OR
- Que.4 (A) Write a note on production of NaOH with flow diagram. 10
(B) State usefulness of caustic soda. 04
- Que.5 (A) Write the classification of fuels with examples. 10
(B) What is calcination? Explain it with example. 04
OR
- Que.5 (A) How synthetic graphite is produced from natural graphite? Give application of graphite. 10
(B) State industrial application of elemental sulphur. 04