

**E 9516**

(Pages : 2)

Reg. No.....

Name.....

**B.Sc. DEGREE (C.B.C.S.S.) EXAMINATION, NOVEMBER 2014**

**First Semester**

Vocational Course—INDUSTRIAL ASPECTS OF INORGANIC AND ORGANIC  
CHEMISTRY

(For B.Sc. Chemistry Model II)

[Prior to 2013 admissions]

Time : Three Hours

Maximum Weight : 25

**Part A**

*Answer all questions.*

*Each bunch of four questions carries a weight of 1.*

- I. 1 One sulphide ore of Copper is \_\_\_\_\_.
- 2 Leaching process is used for the purification of \_\_\_\_\_ ore.
- 3 Zinc blende is \_\_\_\_\_ compound.
- 4 Chemical formula of starch is \_\_\_\_\_.
- II. 5 Thermite process is used for the extraction of \_\_\_\_\_.
- 6 Main source of LNG is \_\_\_\_\_.
- 7 Silica is \_\_\_\_\_ chemically.
- 8 Formula of Alumina is \_\_\_\_\_.
- III. 9 Electrolytic refining is used for the purification of \_\_\_\_\_ metal.
- 10 State the law of material balances.
- 11 One chemical derived from cellulose is \_\_\_\_\_.
- 12 Bessemer converter is used for the manufacture of \_\_\_\_\_.
- IV. 13 What is Poling ?
- 14 Desilverisation of lead is done by \_\_\_\_\_ process.
- 15 Mica is \_\_\_\_\_.
- 16 What are Gasoline ?

(4 × 1 = 4)

**Turn over**

**Part B**

*Answer any five questions.*

*Each carries a weight of 1.*

- 17 What do you mean by Dimensionless groups ?
- 18 Discuss the working of Reciprocating pump.
- 19 What do you mean by Graphical integration ?
- 20 How will you extract Zinc from Zinc blende ?
- 21 What is Hydroforming ?
- 22 Differentiate between Slag and Flux.
- 23 How is blister copper purified ?
- 24 Explain the term isomerisation

(5 × 1 = 5)

**Part C**

*Answer any four questions.*

*Each carries a weight of 2.*

- 25 How will you extract Copper from Copper Glance ?
- 26 Discuss briefly on Renewable energy sources.
- 27 Write briefly on different types of coal and their structure.
- 28 Write briefly on important industrial chemicals derived from cellulose.
- 29 Explain the working of self priming pumps and its uses.
- 30 How will you prepare Ethanol from starch ?

(4 × 2 = 8)

**Part D**

*Answer any two questions.*

*Each carries a weight of 4.*

- 31 What are Silicates ? Discuss briefly on different types of Silicates.
- 32 Discuss briefly on different types of valves.
- 33 Discuss briefly on Physiochemical principle of extraction of Iron.

(2 × 4 = 8)