



**School Education Department -Thanjavur District  
Special Slip Test - 01**

Std. - 12

Time - 1.30 Hrs

Chemistry

Total Marks - 50

**PART - A****6x2=12****I. Answer any SIX questions, Question Number: 8 is compulsory.**

1. Mention the common methods of concentration of Ores?
2. CO is a reducing agent, prove this with an example?
3. Give any two uses of boron?
4. Give the basic requirements for vapor phase refining?
5. What are the limitations of the Ellingham Diagram?
6. Give one example for the following
  - a) Icosagen b) Tetragen c) Nitrogen d) Chalcogen
7. What is roasting? Give an equation?
8. How will you convert Boric acid into Boron Nitride?

**PART - B****6x3=18****II. Answer any SIX questions, Question Number: 16 is compulsory.**

9. Mention the uses of zinc?
10. Explain Aluminothermic Process?
11. Write a note on Fisher – Tropsch Synthesis?
12. Compare the Properties of Diamond and Graphite?
13. What is known as Inorganic Benzene? How is it Prepared?
14. Mention the anomalous properties of the first element in P-block elements?
15. Explain the following with an example?
  - a) Gangue b) Slag
16. What is the action of heat on boric acid? Write the equations?

**PART - C****4x5=20****III. Answer all the questions.**

17. a) Explain Zone refining process?  
(Or)  
b) i) What is auto reduction? Give an example? (2)  
ii) Write a method used to purify Nickel? (3)
18. a) i) Write a note on carbon nanotubes? (3)  
ii) How will you identify borate radicals? (2)  
(Or)  
b) Explain the structure of Diborane?

\*\*\*\*\*