## Government College (Autonomous), Rajamahendravaram
*(Affiliated to Adikavi Nannaya University)*
### SEMESTER-VI- Cluster Course VIII A1
### Introduction to Mineral Exploration
### Model Question Paper

Time: 3 hrs                                                                    Max.Marks: 60

### Part - A

Answer any Four of the following questions.                          4 x 10 = 40

1. What is Geological mapping? Describe the Geological methods in mineral exploration.
2. Describe the Geochemical dispersion and geochemical methods in exploration. Add a note on path finders.
3. What are proved, probable and possible reserves? Describe the reserve estimation methods.
4. What is resistivity? Describe electrical resistivity methods in mineral exploration.
5. What is sampling? Describe different types of sampling methods.
6. What is mining? Describe different mining methods.
7. What is Geological mapping? Describe the Geological methods in mineral exploration.
8. Write notes on the following
   a.) Gravity method                    b.) Magnetic method.

### Part – B

Answer any Four of the following questions.                          4 x 5 = 20

9. Average Assay
10. Geological prospecting
11. Geological mapping
12. Seismic method
13. Radio activity method.
14. Drilling methods
15. Alluvial Mining
16. Ore Dressing

**PRACTICAL**
**(AT THE END OF VI SEMESTER)**
SEMESTER-VI- Cluster Course VIII A1
Introduction to Mineral Exploration

1) Estimation of Ore reserves: Bedded type and vein type (Extended area and included area methods)

2) Sampling Techniques – Preparation of composite sample of sediment by coning and    quartering methods