



- Notes :
1. Due credit will be given to neatness and adequate dimensions.
 2. Assume suitable data wherever necessary.
 3. Illustrate your answers wherever necessary with the help of neat sketches.
 4. Marks against each question is indicated in the right margin.

1. a) Give a detailed classification of stopping methods. **8**
b) Discuss the factors to be considered during selection of stopping methods. **8**
OR
2. a) What is level Interval? Discuss factors affecting level Interval. **6**
b) Discuss the present status. of metal mining Industry in India with special reference to minerals mined, reserves statistics, Technology adopted and production. **10**
3. a) Explain with neat sketch, the following. **9**
i) Shaft station.
ii) Ore bin.
iii) Ore passes.
b) List out various methods of Raising with their suitability conditions. **7**
OR
4. a) What is a drive / drift? What are the various purposes for which drives / drifts are driven? **7**
b) Explain with neat sketch Drop Raising method. **9**
5. Sketch and describe square set stopping method with applicability conditions, full cycle of operation, merits and demerits. **16**
OR
6. Sketch and describe sublevel stopping method with applicability conditions, full cycle of operation, merits and demerits. **16**
7. a) Describe with neat sketch, Block caving method of stopping with its applicability conditions. **12**
b) What is dilution? Discuss the procedure to avoid dilution. **4**
OR
8. Describe with neat sketch top slicing method of stopping with its applicability conditions, stope preparation and layout and its merits and demerits. **16**
9. Explain in detail with neat sketches.
a) Solution Mining. **8**
b) In-situ leaching Techniques. **8**
OR
10. Explain the following in detail.
a) Problems of deep mining and their remedial measures. **8**
b) Bore hole mining. **8**
