

R09

Code No: 56087

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B. Tech III Year II Semester Examinations, May - 2019

UNDERGROUND METAL MINING TECHNOLOGY

(Mining Engineering)

Time: 3 hours

Max. Marks: 75

**Answer any five questions
All questions carry equal marks**

1. Explain the peculiarities of Metallic ferrous deposits with their scope limitations of underground metal mines. [15]
2. Write notes on:
a) Layout of drift
b) Raise and winze
c) Rises. [5+5+5]
3. Explain in brief different types of raising methods. [15]
4. List out various stoping methods. With the help of neat sketches, explain any two methods. [15]
5. What is caving? What are different caving methods? Explain them with the help of a neat diagram. [15]
6. What are the methods of working of thin seam in metal mining? Write briefly about any one method which is used in India. [15]
7. Write the applicability conditions for the following methods:
a) Mucking
b) Ventilation
c) Haulage. [5+5+5]
8. Describe briefly about the scope and limitations of in-situ leaching. Write an example of in situ leaching being used and describe the procedure. [15]

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