

TEMATICA SI BIBLIOGRAFIA PENTRU PROBA DE VERIFICARE A CUNOȘTIȚELOR  
EXAMEN DE ADMITERE MASTER 2017  
**EXPLOATAREA DURABILĂ A RESURSELOR MINERALE**

**THEME AND REFERENCES TO THE OF KNOWLEDGE  
MASTER ENTRANCE EXAM 2017  
SUSTAINABLE EXPLOITATION OF THE MINERAL RESOURCES**

1. The form of deposits. Structure and texture of ores. Factors that influence the value of a deposit.
2. Geological, geophysical and geochemical prospecting. Exploration by mining workings. Exploration by drilling.
3. Resources and mineral reserves. Methods for calculating the reserves. The choice of methods for calculating the reserves.
4. Physical, mechanical, technological and archeological rock characteristics.
5. Stability criteria. Safety factors.
6. Primary and secondary stress – deformation state around underground mining works
7. Mining pressure. Calculation hypothesis of mining pressure in horizontal and vertical mining works. Control of mining pressure and stops support.
8. Exploitation methods of ore deposits for different deposit conditions. Risk factors in underground mining constructions.
9. Deposits exploitation by open-pit workings.
10. Underground atmospheric environment. Atmospheric air and mine air composition. Toxic, flammable, asphyxiate and radioactive gases. Characteristics and maximum admissible concentrations. Partial and total ventilation system of underground works.

**11. BIBLIOGRAFIE**

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