

**R09**

**Code No: 56088**

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD**

**B. Tech III Year II Semester Examinations, November/December - 2020**

**MINE ENVIRONMENTAL ENGINEERING - II**

**(Mining Engineering)**

**Time: 2 hours**

**Max. Marks: 75**

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

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1. State the steps to be taken to prevent spontaneous heating in coal pillars. [15]
2. What are the indicators that are favorable for reopening an area sealed off because of a large fire due to spontaneous heating? Explain them. [15]
3. Explain the term "Graham Index". Explain its importance in mining activity. [15]
4. What are the principal dangers likely to be encountered in exploring and restoring underground workings after an Coal Dust explosion? Explain. [15]
5. List precautions against inundation due to underground water. [15]
6. Explain the causes and prevention of Noise level in mines. [15]
7. Describe with neat sketch, a modern layout for 2000 cap-lamp self servicing installation, with provision for servicing oil lamps. [15]
8. State the types of Self-contained breathing apparatus. [15]

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