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Code No: 56088

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B. Tech III Year II Semester Examinations, December - 2017

MINE ENVIRONMENTAL ENGINEERING-II

(Mining Engineering)

Time: 3 hours

Max. Marks: 75

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

- 1.a) What is Grahams Ratio? What are the different stages of spontaneous heating according to Grahams Ratio?
b) Explain about Co-wards diagram. [8+7]
2. Explain the approach and procedure to be followed while carrying out rescue operations in fire zones. [15]
- 3.a) Describe the characteristics of firedamp explosion.
b) Explain the precautions against fire damp explosion. [7+8]
4. Explain the precautions to be taken immediately after an occurrence of coal dust explosion. [15]
- 5.a) What are the surface causes of inundation in mines?
b) Explain the procedure to be followed while approaching water logged areas. [7+8]
6. Explain the preventive measures against the Environmental aspects of blast induced vibration and noise. [15]
7. Explain the principle, construction and operation of flame safety lamp. [15]
- 8.a) What are the different types of apparatus maintained by the rescue team?
b) What is the difference between escape, self contained breathing and reviving apparatus?
c) What is fresh air base? [5+6+4]

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