

R09

Code No: 56088

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B. Tech III Year II Semester Examinations, December - 2018

MINE ENVIRONMENTAL ENGINEERING-II

(Mining Engineering)

Time: 3 hours

Max. Marks: 75

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

1. What are the various factors that influence spontaneous heating of coal in underground coal mines? Explain them in detail. [15]
2. Explain in detail, the sequence of rescue operations to be carried out in a fire zone? Assume relevant data wherever necessary. [15]
3. What are the causes of fire damp explosions in underground coal mines? Explain them in detail. [15]
4. What are the various sources for production of coal dust in underground coal mines and explain the control measures to be adopted to minimize it? [15]
5. Discuss in detail, preventive measures to be adopted against inundation, with suitable examples. [15]
6. What are the causes for ground vibrations in open cast mines? Explain them in detail. [15]
7. Discuss in detail an illumination arrangement in open cast mines, with suitable examples. [15]
8. Explain, with a suitable line diagram, various parts and their purpose of a self-contained breathing apparatus. [15]

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