R16

Code No: 136ET

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
B. Tech III Year II Semester Examinations, November/December - 2020
COAL GASIFICATION, COAL BED METHANE AND SHALE GAS
(Civil Engineering)

Time: 2 hours **Max. Marks: 75**

Answer any five questions
All questions carry equal marks
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1. With a neat sketch, explain the working principle and merits and demerits of Underground Coal Gasification (UCG) process. [15]

2. Is there any change in UCG technology over past few years? Explain in detail the global scenario of UCG Technology. [15]

3. What do you mean by Chamber method? Discuss in detail the mining principles and methodology which differs from other methods. [15]

4. Compare and contrast Blind bore hole method vs. Borehole procedure method. [15]

5. Discuss in detail any non-mining method of UCG with a neat sketch. [15]

6. What do you mean by Inclined seams? Discuss in detail the concept associated with this one. [15]

7. What is Percolation linkage? How it differs from Electro linkage? Discuss the pros and cons of these linkage techniques. [15]

8. What do you mean by Hydraulic fracture linkage? Discuss briefly the future scope and development strategies of linkage techniques. [15]

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