

2022
B.A./B.Sc.
Sixth Semester
DISCIPLINE SPECIFIC ELECTIVE – 4
GEOLOGY
Course Code: GLD 6.21
(Fuel Geology)

Total Mark: 70
Time: 3 hours

Pass Mark: 28

Answer five questions, taking one from each unit.

UNIT-I

1. Differentiate between proximate and ultimate analysis of coal. Write in detail about the proximate method. 2+12=14
2. Write notes on the following: 7×2=14
 - (a) Lithotypes
 - (b) Origin of coal

UNIT-II

3. What is coal bed methane? Elaborate on the basic properties of coal as a reservoir for CBM production. 2+12=14
4. Write notes on the following: 7×2=14
 - (a) Direct coal gasification
 - (b) Advantages and disadvantages of underground coal gas liquefaction

UNIT-III

5. Explain the different chemical components of crude oil. 14
6. Write notes on the following: 7×2=14
 - (a) Viscosity and specific gravity of crude oil
 - (b) Inorganic origin of crude oil

UNIT-IV

7. What are cap rocks? Give a detailed account on the characteristics of cap rocks and its types. 2+12=14
8. Write notes on the following: 7×2=14
- (a) Traps formed due to faulting
 - (b) Clastic reservoir rocks

UNIT-V

9. Discuss how uranium originates and occurs in nature. Also mention some of the uranium reserves in India. 14
10. Explain the different processes of how nuclear waste is disposed. 14
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