

2023
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. Elaborate on the concept of coal macerals and microlithotypes. 14
2. Write notes on the following: 7×2=14
 - (a) Basic classification of coal
 - (b) Trace elemental analysis of coal

UNIT-II

3. Write in detail about the concept, procedure and advantages of underground coal gasification. 14
4. Write notes on the following: 7×2=14
 - (a) CBM formation
 - (b) Advantages and disadvantages of coal liquefaction process

UNIT-III

5. Explain in detail with necessary diagrams the migration of crude oil in nature. 14
6. Write notes on the following: 7×2=14
 - (a) Physical properties of crude oil
 - (b) Difference between inorganic and organic origin theories of crude oil

UNIT-IV

7. Discuss about the different types of hydrocarbon traps. 14
8. Write notes on the following: 7×2=14
- (a) Cap rocks and its types
 - (b) Chemical reservoir rocks

UNIT-V

9. Discuss how radioactive minerals originate and occurs in nature. Also mention some of the thorium reserves in India. 14
10. What are gas hydrates? Explain its importance. 14
-