

**B. Sc. 5<sup>th</sup> Semester (Honours) Examination, 2021**

**GEOLOGY**

**Course ID: 52016**

**Course Code: SHGEL-503DSE-1(T)**

**Course Title: Fuel Geology**

**Time: 1 Hour 15 Minutes**

**Full Marks: 25**

*The figures in the right-hand side margin indicate full marks.*

*Candidates are required to give their answers in their own words as far as practicable.*

1. Answer any five of the following questions: 1x5 = 5
    - a. What is humification?
    - b. What is ball coal?
    - c. Name two geological periods during which coal is found in India.
    - d. What is porphyrin?
    - e. What is metamictization?
    - f. What is sapropelic coal?
    - g. Define grade of coal.
    - h. What is anthraxylon?
  
  2. Answer any two of the following questions: 5x2 = 10
    - a. Briefly describe the depositional conditions necessary for conversion of organic matter to petroleum.
    - b. Discuss the geochemical behaviour of uranium in igneous and sedimentary domains.
    - c. Briefly describe the physical properties of petroleum.
    - d. Briefly describe the controlling factors of migration.
  
  3. Answer any one of the following questions: 10x1 = 10
    - a. 'Coal is not a mineral in strict sense though it is considered as a mineral resource'—justify with reasons.
    - b. Discuss the geochemical behaviour of uranium in igneous and sedimentary domains.
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