

00155

**Ph.D. GEOLOGY
(PHDGY)**

Term-End Examination

June, 2018

RGYE-107 : COAL GEOLOGY

Time : 3 hours

Maximum Marks : 100

Note : Answer any *five* questions. All questions carry equal marks.

1. How is coal formed ? Describe the geological units that contain coal deposits in India. 20
2. Discuss the recent instrumentation techniques in coal mining. 20
3. Discuss the process for preparing polished pellets for petrographical analysis of coal. 20
4. Write an essay on lignite basins of India. 20
5. "Coal is an alternative energy source." Justify this statement. 20

6. Write an essay on recent advances in coal exploration. 20
7. Write short notes on any **two** of the following : 2×10=20
- (a) Core Logging
 - (b) Underground Gasification of Coal
 - (c) Bord and Pillar Method of Mining
 - (d) Coal Bed Methane
8. Write short notes on any **two** of the following : 2×10=20
- (a) Coal Combustion
 - (b) ASTM Classification of Coal
 - (c) Fluorescence Microscopy
 - (d) Proximate Analysis of Coal
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