

Name:	
Enrolment No:	

## UNIVERSITY OF PETROLEUM AND ENERGY STUDIES

**End Semester Examination, December- 2019**

**Course Name: Mineral Exploration & Mining Geology**

**Semester: III**

**Programme Name: B. Tech, GIE**

**Time: 03 hrs**

**Course Code: PEGS 2006**

**Max. Marks: 100**

### SECTION A (20 Marks)

S. No.		Marks	CO
Q 1	Discuss the procedure to obtain the Mining Lease	05	CO2
Q 2	Coal & Petroleum both are produced by the same process, if yes/ No, give suitable justifications	05	CO3
Q 3	Discuss the outcomes of Nugget Effect in sampling.	05	CO1
Q 4	Differentiate between Caking & Coking coal	05	CO2

### SECTION B (40 Marks)

Q 5	Explain various phases & stages of Mining cycle. Give suitable justification for cost variation during various stages/ phases.	10	CO3
Q 6	Give reasons behind channel sampling to be considered the most scientific and authentic one.	10	CO4
Q 7	What is role of scale and how will it differ for a) Reconnaissance, b) Prospecting, c) General Exploration and d) Detailed Exploration?	10	CO4
Q 8	Examine the effect of particle motion in formation of placer deposit  <b>OR</b>  Can placers be of residual origin? Yes/No, elaborate with suitable examples.	10	CO1

### SECTION-C (40 Marks)

Q 9	Examine the superiority of Triangular method of Reserve Estimation over Polygon method.	20	CO2
Q 10	What do you mean by gravity correction? List down the methods for the same.  <b>OR</b>  What are the controlling factors for resistivity measured in the ground? Based upon resistivity, classify the rock.	20	CO1