

**VPG(4) — GI (13) FG**

**2016-18**

*Time : 3 hours*

*Full Marks : 70*

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

*The questions are of equal value.*

*Answer **five** questions in which Q. No. 1 is compulsory.*

1. Give answer in **two** sentences each :
  - (a) What is Kerogen ?
  - (b) What is lignite ?
  - (c) Differentiate between Fusain and Vitrain.
  - (d) Differentiate between Coking and Non-Coking Coal.
  - (e) What is CBM ?
  - (f) What do you mean by rank of coal ?
  - (g) What is open cast mining ?

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( Turn over )

2. Write notes on the following :
  - (a) Coal Carbonisation
  - (b) Macerals and Micro lithotypes
3. Write notes on the following :
  - (a) Proximate and Ultimate Analysis
  - (b) Grade of coal
4. Discuss, in brief, various applications of Coal Petrography.
5. Discuss, in detail, the geology of Raniganj coal fields of eastern India.
6. Give an account of geological and geographical distribution of Gondwana coal basins of India.
7. Write an essay on Coal production and problems of Coal industry in India.
8. Discuss tertiary coal resource of India.
9. Discuss important methods of coal mining.



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