

Instructions: (i) Draw neat diagrams whenever necessary.
(ii) Write proper answer number.

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- Q-1 Describe the underground mining methods used in metal mining. (14)
- OR
- Q-1 (a) Conservation and substitution in mines. (07)
(b) Fire as mining hazard. (07)
- Q-2 Discuss the influence of geological characteristics on human life and biodiversity. (14)
- OR
- Q-2 (a) Environmental implications of earthquakes. (07)
(b) Renewable earth resources. (07)
- Q-3 Explain applications of remote sensing techniques in basin analysis. (14)
- OR
- Q-3 (a) Mud-filtrate invasion. (07)
(b) K-G basin. (07)
- Q-4 Write a note on Umarsar lignite mine with reference to its composition, age, geological characteristics and reserves. (14)
- OR
- Q-4 (a) Methods of coal prospecting. (07)
(b) Atomic fuels and environment. (07)
- Q-5 **Attempt any seven questions out of twelve.** (14)
- (i) Define berm and ramp.
(ii) What is air crossing and interburden?
(iii) State the types of drilling methods.
(iv) State two implications of recent volcanism on Iceland.
(v) Give two examples of environmental management.
(vi) How construction and landuse are correlated?
(vii) Define kerogen. State the types of kerogen.
(viii) What is primary migration of oil?
(ix) State two uses of well log.
(x) Name the important coal fields of Maharashtra.
(xi) Give the chemical characteristics of coal.
(xii) How coal is prepared for industrial purposes?