

B.Sc. Sem.-6 Examination

CC-307

Geology

April-2025

Time : 2-30 Hours]

[Max. Marks : 70

Instructions: (i) Draw neat diagrams whenever necessary.

(ii) Write proper answer number.

Q-1 Describe the formation of graphite and aluminosilicate deposits. (14)

OR

Q-1 (a) Methods of mineral processing. (07)

(b) Tenor and grade in profitable mineral exploitation. (07)

Q-2 Discuss the process of pneumatolysis. (14)

OR

Q-2 (a) Ladder lodes and saddle reefs. (07)

(b) Stages and agents in metasomatism. (07)

Q-3 Explain residual deposits of bauxite and baryte. (14)

OR

Q-3 (a) Sedimentary carbonates cycle. (07)

(b) Role of CuSO_4 in the zone of supergene enrichment. (07)

Q-4 Write an illustrative note on gemstones. (14)

OR

Q-4 (a) Minerals used in atomic power generation. (07)

(b) Minerals used in the industries of Vatva region. (07)

Q-5 **Attempt any seven questions out of twelve.** (14)

(i) Name the eras of human civilization.

(ii) State the base of Lindgren's and Bateman's classification.

(iii) Give example of beneficiation in mineral exploitation.

(iv) What is phenite? Give one example of it.

(v) Distinguish mineral veins and fissure veins.

(vi) Give the example of hydrothermal deposit from Gujarat with name of minerals.

(vii) State the source material in sedimentation.

(viii) Define evaporites. Give one example from Kachchh.

(ix) State the properties of minerals found in placer deposits.

(x) State the uses of titanium ores.

(xi) Name the base metal deposits of Rajasthan.

(xii) State the gold fields of India.