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1105E213

Candidate's Seat No : \_\_\_\_\_

MSc (Integ) in App Geo Sem 5 Examination

AGL - 301

Economic Geology

May 2022

Time : 2-00 Hours]

[Max. Marks : 50

- Q - 1 Define economic geology. Also add a note on ore, gangue and mineral deposits. [14]
- Q - 2 (i) Explain the various methods of mineral exploration and processing. [07]  
(ii) Bateman's and Lindgren's classification. [07]
- Q - 3 Discuss hydrothermal and magmatic processes in detail. [14]
- Q - 4 (i) Discuss historical development of economic geology. [07]  
(ii) Explain Pneumatolytic activity. [07]
- Q - 5 Explain residual weathering processes. [14]
- Q - 6 (i) Write a note on Placer deposits. [07]  
(ii) Discuss oxidation and secondary enrichment with necessary chemical reactions involved. [07]
- Q - 7 Discuss the sedimentation process along with source material, solution, transportation and deposition. [14]
- Q - 8 (i) Explain the condition of deposition of iron ores, manganese ores, coal and petroleum. [07]  
(ii) Write a note on metamorphic deposits of Asbestos, kyanite and sillimanite. [07]
- Q - 9 **Answer the following short questions.** [08]  
(i) Define economic geology.  
(ii) Define gangue.  
(iii) Define ore.  
(iv) Who have proposed the classifications of mineral deposits?  
(v) Name the types of magma.  
(vi) What are epigenetic deposits?  
(vii) Provide the list of weathering products.  
(viii) Name the types of placer deposits.

—X—