

Instructions to candidates

Duration: 01 hour

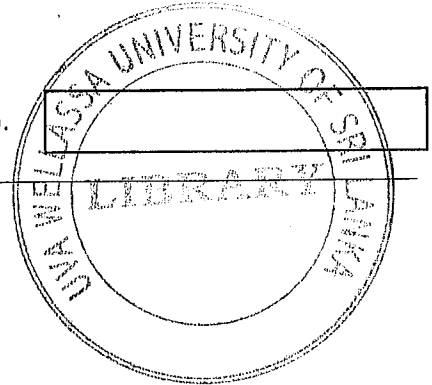
Number of Questions: essay 02

Answer all questions

Mark allocation: 100

Illustrate your answers with sketches/diagrams where necessary

Index No.



Section II - (1 hour)

1.

a. What are the main and sub- components in the exploration planning and project evaluation?

b. Briefly describe the following topics.

i. Importance of geophysics in exploration programs

ii. Alluvial gold deposits

(50 mark)

2.

An Australian mining company has planned to implement a heavy mineral exploration project in Sri Lanka. This company has interest in separating heavy minerals from Red Earth deposit at limestone quarry site in Aruwakkalu, Puttalam. At the moment, Red Earth is used as filling material to control environmental problems at the quarry site. This company is looking for a Mineral Processing Specialist. Write a Technical Proposal to design the heavy mineral exploration project for the particular location. (Note: this company has a stable international market for raw materials)

(50 mark)