

Instructions to candidates

Duration: 01 hour

Number of questions: Twelve (12) Structured Questions

Answer all questions

Mark allocation: 150

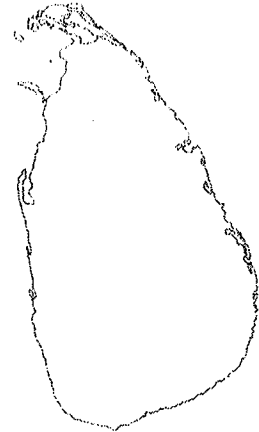
Index No.

Empty rectangular box for index number.

Illustrate your answers with sketches/diagrams where necessary

1. Sketch and name the geological units of Sri Lanka defined by Cooray, 1994. (10 mark)

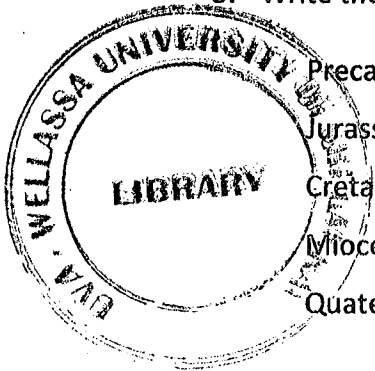
- a. ....
- b. ....
- c. ....
- d. ....
- e. ....



2. Suggest the geological process responsible for the formation of following mineral deposits. (10 mark)

- a. Graphite deposits at Kahatagaha .....
- b. Clay deposit at Meethiyagoda .....
- c. Pegmatites at Matale .....
- d. Dolomite deposit at Digana .....
- e. Vein quartz deposit at Balangoda .....
- f. Magnetite deposit at Buttala .....
- g. Gem deposits at Ratnapura.....
- h. Granitic gneisses at Tonigala.....
- i. Gem deposits at Bakamuna.....
- j. Secondary Iron ore deposits at Samanalawawa .....

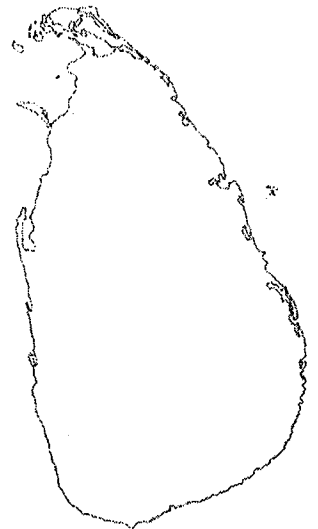
3. Write the major lithology or mineral deposit in Sri Lanka formed during following periods. (10 mark)



- Precambrian .....
- Jurassic .....
- Cretaceous .....
- Miocene .....
- Quaternary .....

4. Sketch and name the nine major geomorphological provinces of Sri Lanka defined by Wickramagamaga, 1998. (10 mark)

- a. ....
- b. ....
- c. ....
- d. ....
- e. ....
- f. ....
- g. ....
- h. ....
- i. ....



5. Name the industry that utilizes following mineral resources in Sri Lanka. (10 mark)

- a. Graphite .....
- b. Granite .....
- c. Gneisses.....
- d. Geuda.....
- e. Mineral Sand .....
- f. Topaz .....
- g. Apatite.....
- h. Dolomite .....
- i. Limestone.....
- j. Dolomite.....

6. Complete the table below to show the major lithological and structural differences in crystalline basement of Sri Lanka. (20 mark)

	Wanni Complex (WC)	Highland Complex (HC)	Vijayan Complex (VC)
Metamorphic Grade			
Age of Metamorphism			
Major Metasedimentary Units			
Major Metagneous Units			
Major Structural Features			

7. Following table shows the current status of the mineral industry in Sri Lanka. Give examples. (10 mark)

Construction Material	Raw material for mineral based value added products (local and export oriented industry)	Fertilizer Industry	Export as raw minerals







