

2023

Time - 3 hours

Full Marks - 80

Answer ALL questions.

Figures in the right hand margin indicate marks.

1. What are various types and significance of research ? Describe the problems encountered by researchers in India. [20]

OR

Write notes on :

- (a) Meaning and objectives of research methods [10]
(b) Criteria for good research [5]
(c) Research problems [5]
2. What is research design ? Describe briefly about measurements, scaling, data collection and data preparation in sample survey. [20]

OR

Write notes on : [10 × 2]

- (a) Interpretation and report writing in research
(b) Statistical parameters in geology

[2]

3. Describe about fundamentals of geological mapping. Write a brief note on grain size analysis and interpretation with diagram. [20

OR

Write notes on : [10 × 2

- (a) Wenner method of groundwater exploration
- (b) Chemical parameters in quality of groundwater analysis

4. Describe briefly about how aerial photography and remote sensing used in mineral exploration. [20

OR

Write notes on : [10 × 2

- (a) Elementary idea on GIS
- (b) How remote sensing used in groundwater exploration ?