

A-7

Total No. of Questions 14]

[Total No. of Printed Pages : 4

XISZRJM19

22207

GEOLOGY

Time : 3 Hours]

[Maximum Marks : 70

(Long Answer Type Questions)

5 each

1. Define the term Geology. Explain in detail any *four* branches of geology in detail citing examples.

Or

Define Weathering. Discuss in detail mechanical weathering citing examples from J & K State.

2. What do you mean by underground water ? Explain in detail geological work of UGW citing examples from our state.

Or

Explain the term Spring. Discuss in detail any *four* types of springs with a suitable sketch citing examples from J & K State.

3. Explain Jolly's spring balance for finding specific gravity of minerals with a suitable diagram.

Or

Define Mineral. Give the physical properties and uses of the minerals calcite and quartz.

4. Define a rock with suitable examples. Explain in detail various types of rocks giving at least two examples in each case.

Or

Write detailed notes on the following

- (i) Granite
- (ii) Marble

(Short Answer Type Questions)

3 each

- 5. Write a short note on Biological Weathering
- 6. Explain the role of porosity and permeability
- 7. Give various kinds of aquifers.
- 8. List important lake deposits.
- 9. Explain Waterfall and Delta.
- 10. Write Moh's scale of hardness
- 11. Write brief notes on the following :
 - (i) Anticline fold
 - (ii) Normal fault
- 12. Define a Fossil. List any four uses of fossils.

(Very Short Answer Type Questions)

2 each

13. Answer the following very short answer type questions in a few words or a few sentences :
- (i) Define Petrology.
 - (ii) What do you mean by Juvenile Water ?

- (iii) Discuss cirque citing one example
- (iv) Give hardness and lustre of the following minerals
 - (a) Diamond
 - (b) Orthoclase
- (v) Give Cleavage and S.G. of Hematite and Galena
- (vi) Differentiate between Gneiss and Schist.
- (vii) Write subdivisions of Palaeozoic group.
- (viii) List any two uses of Brunton compass.

(Objective Type Questions)

1 each

14. Do as directed :

- (a) Fill in the blanks with suitable and most appropriate words
 - (i) Best quality marble is found in India at
 - (ii) Conglomerate belongs to
 - (iii) Carbonic acid is an important agent of
- (b) Choose the correct answer and write it in your answer-book :
 - (iv) Bhakra dam is located in :
 - (A) Punjab
 - (B) Haryana
 - (C) H.P.
 - (D) J & K

Turn Over

(v) Folding is best seen in :

- | | |
|-----------------------|-----------------------|
| (A) Igneous rocks | (B) Sedimentary rocks |
| (C) Metamorphic rocks | (D) Volcanic rocks |

(vi) Topography of a limestone region which is traversed by ground water is called :

- | | |
|----------------------|----------------------|
| (A) Swallow holes | (B) Sink holes |
| (C) Solution Valleys | (D) Karst Topography |

(vii) Asymmetrical ridges formed by incomplete erosion by Glaciers is known as :

- | | |
|----------------------------|-----------------------|
| (A) Crag & Tail topography | (B) Roches-Moutonnées |
| (C) Cirque | (D) Fiords |

(viii) The colour of Topaz is :

- | | |
|------------|-----------------|
| (A) Golden | (B) Wine yellow |
| (C) Orange | (D) Blue |

(c) Write True or False on your answer-book :

(ix) Mineralogy is a branch of Geology which deals with study of minerals.

(x) Ruby and Sapphire are important varieties of Corundum.