

Roll No.

Z-34

Total No. of Questions : 27]

[Total No. of Printed Pages : 4

11th ARF(SZ)JKUT2024-25

234

GEOLOGY

Time : 3.00 Hours]

[Maximum Marks : 70

Section-A

(Objective Type Questions)

1 each

1. Explain the term Geology.

2. What do you understand by underground water ?

Or

What is connate water ?

3. Name any two fresh water lakes of Kashmir.

4. Define Lustre in Mineralogy.

Or

Give hardness of Fluorite and Hematite.

5. Basalt is :

(i) A Sedimentary rock

(ii) An Igneous rock

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Turn Over

(2)

Section-B

(Very Short Answer Type Questions)

2 each

6. Define the term Porosity and Permeability.
7. What do you know about Lustre and Cleavage of Minerals ?
8. Give Physical properties of the following :
 - (i) Calcite
 - (ii) Topaz
9. Differentiate Igneous and Sedimentary Rocks.
10. Explain the Strike in Geology.
11. Define Bridges and Tunnels in your own words.
12. Give Epochs of the Palaeozoic Period.

Or

- Give Eras of Geological Time Scale.

Section-C

(Short Answer Type Questions)

3 each

13. What do you know about Weathering ? Discuss.
14. Explain role of soil formation in Weathering.
15. Write brief notes on the following :
 - (i) Zone of Aeration
 - (ii) Zone of Saturation

(3)

16. Explain with neat and clean diagrams any *three* kinds of Springs Citing examples from Kashmir.
17. Discuss River Terraces. How are these formed ?

Or

List important depositional features of Lake.

18. Explain the term Mineral. Give specific gravity and Lustre of Quartz and Chalcopyrite.
19. Describe Walker's Stellyard balance in your own words.
20. Give physical properties of following Minerals :
 - (i) Apatite
 - (ii) Bauxite

Or

Write about Moh's scale of Hardness.

21. Give description of below given rocks :
 - (i) Granite
 - (ii) Marble
22. Write texture and structure of the following :
 - (i) Gabbro
 - (ii) Limestone
 - (iii) Marble

Or

Explain texture in rocks. List the various types of textures.

23. Explain Fold. Give two points of differences between Anticline and Syncline Fold.

Or

Explain the term Fault. Differentiate between Normal Fault and Reverse Fault.

24. Give utilities of Fossils for the Geology Students.

Section-D

(Long Answer Type Questions)

5 each

25. Explain the term Weathering in Geology. Write in detail the various processes of Chemical Weathering citing examples.

Or

26. List different branches of Geology. Explain in detail about four branches of Geology studied by you. <https://www.jkboseonline.com>

26. Explain in detail role of different types of Aquifers in the field of Geohydrology.

Or

27. Discuss in detail Geological Work of underground water.

27. Define a Glacier. Name and explain various types of Glaciers citing examples from Kashmir and Ladakh U.T.

Or

Explain in detail Geological Work of a River with special reference to the study of Waterfalls and Delta.