Total No. of Printed Pages—4

CODE : 35T GEOL (Pr / I)
(EN)

2026

Suggestive Guidelines for

GEOLOGY
(Practical)

Full Marks : 30

Pass Marks : 12

Time : 3 hours

The figures in the margin indicate full marks for the questions.

Note : The guidelines for 2026 has to be prepared on this basis without repeating from the suggestive guidelines as far as practicable.

Contd.

INSTRUCTIONS TO EXAMINERS

A. *Materials to be selected :*

1. Two Crystal models from the following : 1½×2=3

   (a) Rhombic dodecahedron or octahedron

   (b) Tetragonal Prism

   (c) Hexagonal Prism

2. *One* mineral from Group-A and *three* from Group-B : 1½×4=6

   Group–A : Bauxite, Pyrite, Haematite

   Group–B : Quartz, Orthoclase, Microcline, Gypsum

3. *One* rock from each group : 2×3=6

   Group–A : Granite, Rhyolite

   Group–B : Limestone, Sandstone

   Group–C : Marble, Quartzite

4. A small piece of Calcite 3+1=4

   Or Quartz.

5. A simple Geological map. 8

Contd.

B. *Distribution of Marks :*

1.	*(i)*	Identification	½× 2	= 1
	(ii)	Stating the symmetry axis.....	½× 2	= 1
	(iii)	Naming the system	½ × 2	= 1
			Total	: 3
2.	*(i)*	Four distinguishable physical properties	½× 4	= 2
	(ii)	Identification	½× 4	= 2
	(iii)	Chemical composition	½ × 4	= 2
			Total	: 6
3.	*(i)*	Mineralogical composition	½×3	= 1½
	(ii)	Identification	1×3	= 3
	(iii)	Naming the type	½×3	= 1½
			Total	: 6
4.	Procedure			3
	Result			1
			Total	: 4
5.	*i)*	Proper drawing of the strike lines on the map		1
	(ii)	Showing dip direction		½
	(iii)	Section drawing profile		2
	(iv)	Underground structure		1
	(v)	Description : Physiography		2
		Geological structure		1½
			Total	: 8
6.	Laboratory Notebook.			2
7.	Sample submission with proper identification.			½×2=1

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Questions

1. Identify the two given crystal models. State their axes of symmetry and name the system to which each crystal belongs. 1½×2=3

2. State *at least four* distinguishing physical properties of the *four* minerals given. Identify the minerals and state their chemical composition. 1½×4=6

3. Identify the *three* rocks given and state their mineralogical composition. State the rock types to which they belong. 2×3=6

4. Find out the specific gravity of the given mineral with the help of the spring balance. Describe the procedure.
   (20 minutes) 3+1=4

5. Draw a profile of the given geological map along R-S and show the underground structure. Describe the physiography and geological structure of the area represented by the map.
   (60 minutes) 8

6. Practical Notebook. 2

7. Submission of *at least two* rocks or mineral samples collected with proper identification. 1

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