

Name/Title of Paper- MINERALOGY -II

Time:-Three Hours.]

[Maximum Marks:080

[Minimum Marks 29

नोट : दोनो खण्डों से निर्देशानुसार उत्तर दीजिए। प्रश्नों के अंक उनके दाहिनी ओर अंकित हैं।
Note: Answer from Both the Section as Directed. The Figures in the right-hand margin indicate marks.

Section-A

1. Answer the following objective type questions: (1x10=10)

- (a) Define the minerals with examples.
- (b) Define mineraloids with examples.
- (c) Define the Unit cell.
- (d) Define polymorphism.
- (e) Write down the names of four minerals belongs to olivine group.
- (f) Write down the name of AL silicate minerals.
- (g) Crystal properties AL beryl minerals.
- (h) What do you mean by phyllosilicate minerals?
- (i) Write down the name of alkali Feldspars.
- (j) Write down the names of major Gem minerals.

SECTION - B

2. Answer the following short Answer questions; 2x5 = 10

- (a) Write down the physical properties of minerals depending upon crystal structure.
- (b) Write a note of silicate structure: Ring& chain type (only).
- (c) Write down the mineralogy of olivin minerals.
- (d) Write down the mineralogy of pyroxene minerals.
- (e) Write down the mineralogy of carbonate minerals.

SECTION - C

12x5 = 60

Answer the following questions in detail.

3. Explain the following physical properties of minerals; Electrical magnetic & thermal properties.

OR

Define the minerals and mineraloids with suitable examples.

4. Write notes on;

- (a) Ionic - Radii, (b) Coordination - principles. (c) Bonding in crystals.

OR

Write an essay on polymorphism, polytypism and pseudomorphism

5. Describe the mineralogy of garret group of minerals.

OR

Describe the mineralogy of Epidote family.

6. Describe the systematic mineralogy of pyroxene group of minerals.

OR

Describe the systematic mineralogy of mica group of minerals.

7. Describe the systematic mineralogy of Feldspar group of minerals.

OR

Write a note on Gem minerals.