

PE-284-CV-19
M.Sc. GEOLOGY (2nd Semester)
Examination, June 2022
SEDIMENTALOGY & CRUSTAL EVOLUTION

Time : Three Hours]

[Maximum Marks : 80
[Minimum Pass Marks : 29

Note : Answer from both the Sections as directed. The figures in the right-hand margin indicate marks.

Section-A

1. Answer the following short answer questions:

1x10=10

- (a) What do you mean by stratification.
- (b) What is dolomitization.
- (c) Define the Volcano clastics.
- (d) Define the Evaporite.
- (e) What do you mean by diagenesis.
- (f) Define Arkose rock.
- (g) What do you mean by oceanic crust.
- (h) Name the Indian granite greenstone belt.
- (i) What do you mean by sedimentary Basin.
- (j) What are the three main types of igneous rocks?

2. Answer the following short type questions:

2x5=10

- (a) Write a brief note on stromatolites.
- (b) Write a note on classification of sand stones.
- (c) Write a note on diagenesis of carbonates rocks.
- (d) Write a note on continental crust.
- (e) Write a note on sedimentary Basins of India.

Section-B

12x5=60

Answer the following Long-Answer questions:

3. Write a note on textural analysis of sediments.

OR

Write a note on generation of sedimentary structures.

4. Write a note on shallow coastal clastics.

OR

Write a note on glacial sedimentary Environment.

5. Write an essay on 'Deep Sea Basins'.

OR

Explain palaeoclimates and their geological significances.

6. Write a note on evolution of Lithosphere.

OR

Write a note on petrogenesis of Arkose.

7. Write a note on Anatomy of orogenic belts.

OR

Describe the sedimentary Basins of India.