1.

2023

Time - 3 hours

Full Marks - 60

Answer **all groups** as per instructions. Figures in the right hand margin indicate marks.

GROUP - A

Ans	swer <u>all</u> questions and fill in the blanks as required. $[1 \times 8]$
(a)	The dominant mineral limestone is
(b)	A heavy mineral has specific gravity more than gm/cc.
(c)	In orthoquartzite, the percentage of quartz is more than%.
(d)	The zone that includes area between level of high tide and low tide is
(e)	The size range of silt-sized particle istomm.
(f)	Stylolite is a type of sedimentary structure.
(g)	A rudaceous rock with rounded shape clastic grain is called
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(h) Lamination structure is found in which sedimentary rock?

GROUP - B

- 2. Write notes on <u>any eight</u> of the following within two to three sentences each. $[1\frac{1}{2} \times 8]$
 - (a) Heringbone structure
 - (b) Turbulent flow
 - (c) Compaction
 - (d) Graded bedding structure
 - (e) Sphericity
 - (f) Types of fluids
 - (a) Particle entrainment
 - (h) Dolomitisation
 - (i) Shale
 - (i) Non-clastic texture

GROUP - C

3. Write notes on any eight of the following within 75 words each.

[2 × 8

- (a) Concept of grain size
- (b) Roundness of grain

- (c) Vindhyan sedimentary basin
- (d) Mud crack
- (e) Cementation
- (f) Sources of sediments
- (g) Sole marking structure
- (h) Conglomerate
- (i) Sedimentary facies
- (j) Significance of heavy mineral studies

GROUP - D

Answer all questions within 500 words each.

4. Give a detail account on diagenesis.

[6

OR

Briefly describe the process of formation of sedimentary rocks with examples.

5. Briefly describe the texture of sedimentary rocks.

[6

OR

Give a detail account on sedimentary environment.

6. Give a detail account on sedimentary basins of India. [6

OR

Give a detail account on palaeocurrent analysis.

7. Write a petrographic note on sandstone.

[6

OR

Write a petrographic note on limestone.