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24-GE-23

**M.Sc. II SEMESTER [MAIN/ATKT] EXAMINATION
JUNE - JULY 2024**

GEOLOGY

Paper - III

[Sedimentology]

[Max. Marks : 75]

[Time : 3:00 Hrs.]

[Min. Marks : 26]

Note : Candidate should write his/her Roll Number at the prescribed space on the question paper.
Student should not write anything on question paper.
Attempt five questions. Each question carries an internal choice.
Each question carries **15 marks**.

Q. 1 Describe the process of sedimentation in brief. (15 Marks)

OR

Write short notes on the following -

i) Classification of sedimentary rocks. (7½ Marks)

ii) Laws of sediment settling. (7½ Marks)

Q. 2 Describe the classification of sandstone in brief. (15 Marks)

OR

Write short notes on the following -

i) Sedimentary primary structures. (7½ Marks)

ii) Significance of sedimentary structures in Palaeo current studies. (7½ Marks)

Q. 3 Describe the textures of sedimentary rocks and their genetic significance. (15 Marks)

OR

Short notes on the following -

i) Granulometric analysis of clastic particles. (7½ Marks)

ii) Lithification and Diagenesis. (7½ Marks)

Q. 4 Describe the elements and types of depositional environments. (15 Marks)

OR

P.T.O.

Write short notes on the following -

- i) Marine Environments. (7½ Marks)
- ii) Evaporates Volcano-clastic sediments. (7½ Marks)

Q. 5 Write an essay on Provenance and mineral stability. (15 Marks)

OR

Write short notes on the following -

- i) Heavy Minerals. (7½ Marks)
- ii) Tectonic framework of sedimentation (Kay's) (7½ Marks)

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