1006E557   Candidate's Seat No :_____

M.Sc Sem.-2 Examination
P - 410
Geology
Time : 2-00 Hours]   **June 2022**   [Max. Marks : 50

Attempt any three questions from section –I

Q - 1   Write detailed note on EMR, atmospheric windows and their use in   [14]
                Remote Sensing.

Q - 2   (i)   Discuss applications of Remote Sensing.   [07]
        (ii)   Write note on Spectral Response Patterns.   [07]

Q - 3   Explain spatial and non-spatial data and discuss data conversion.   [14]

Q - 4   (i)   Write a note on applications of GPS.   [07]
        (ii)   Write a note on meaning and usefulness of GIS.   [07]

Q - 5   Define Glaciers and write note on erosional and depositional features   [14]
                produced by Glaciers.

Q - 6   (i)   Describe typical landforms produced by wind deposition.   [07]
        (ii)   Write note on role of climate in geomorphic development.   [07]

Q - 7   Describe the role of geomorphology in land use planning and   [14]
                environmental planning.

Q - 8   (i)   Discuss the geomorphic processes on slopes.   [07]
        (ii)   Describe bifurcation ration, stream density and stream order.   [07]

Q - 9   **Answer any eight of the following short questions.**   [08]
        (i)   Define non-selective scattering and give example.
        (ii)   What is diffuse reflection?
        (iii)   When does leaves appear 'greenest'? Why?
        (iv)   Name the types of storage modules.
        (v)   Give two uses of GPS.
        (vi)   What is 'Query' in GIS?
        (vii)   Give the cause for the formation of alluvial fan.
        (viii)   What is soil profile?
        (ix)   Define the term morphology.
        (x)   What is land use planning?
        (xi)   Define dendritic drainage pattern.
        (xii)   Name endogenic processes.

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