

GEO-PHYSICS

Paper - II

Time Allowed : Three Hours

Maximum Marks : 200

Question Paper Specific Instructions

Please read each of the following instructions carefully before attempting questions :

*There are **TEN** questions divided under **TWO** sections.*

*Candidate has to attempt **SIX** questions in all.*

*Questions no. **1** and **6** are **compulsory**.*

*Out of the remaining **EIGHT** questions, **FOUR** questions are to be attempted choosing **TWO** from each section.*

The number of marks carried by a question / part is indicated against it.

Neat sketches may be drawn to illustrate answers, wherever required. These shall be drawn in the space provided for answering the question itself.

Unless otherwise mentioned, symbols and notations have their usual standard meanings.

Assume suitable data, if necessary, and indicate the same clearly.

Attempts of questions shall be counted in sequential order. Unless struck off, attempt of a question shall be counted even if attempted partly.

Any page or portion of the page left blank in the Question-cum-Answer Booklet must be clearly struck off.

*Answers must be written in **ENGLISH** only.*

Physical Constants :

Electron rest mass, m_e	=	9.109×10^{-31} kg
Proton rest mass, m_p	=	1.672×10^{-27} kg
Neutron rest mass, m_n	=	1.675×10^{-27} kg
Atomic mass unit ($C^{12} \equiv 12$), a.m.u.	=	1.661×10^{-27} kg
Bohr magneton, μ_B	=	9.27×10^{-24} J/tesla
Nuclear magneton, μ_N	=	5.05×10^{-27} J/tesla
Boltzmann constant, k_B	=	1.381×10^{-23} J/K