

[This question paper contains 2 printed pages.]

Sr. No. of Question Paper : 1705                      C                      Roll No.....

Unique Paper Code            : 219401

Name of the Course            : B.Sc. (Hons.) Geology

Name of the Paper             : Geology of India : GEHT-401

Semester                        : II

Duration                        : 3 Hours                      Maximum Marks : 75

**Instructions for Candidates**

1. Write your Roll No. on the top immediately on receipt of this question paper.
  2. Answer any **five** questions.
  3. **All** questions carry equal marks.
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1. Describe Indian lithospheric plate. Outline the major features of the continental as well as the oceanic part of the Indian plate.
  2. Define "Precambrian" and its division with approximate dates. Discuss in brief the rock sequences representing this time period in India.
  3. Discuss the stratigraphy, depositional environment and age of the Vindhyan Supergroup.
  4. Describe paleogeographic setting and stratigraphic classification of Gondwana Supergroup. Why Gondwana sediments are rich in coal seams ?
  5. Comment on any **two** of the following :
    - (a) Stratigraphy and tectonic setting of Eastern Ghat Mobile Belt
    - (b) Chronostratigraphy
    - (c) Marine Permian Transgression in Central India

*P.T.O.*

6. Write short notes on any **three** of the following :
- (a) Indus – Tsangpo Suture Zones (ITSZ)
  - (b) Intertrappean Beds
  - (c) Continental Flood Basalt
  - (d) Eocene Interval
7. Write notes on :
- (a) GSSP of Permian Triassic Boundary
  - (b) Um Sohryngkew river section
8. Answer the following :
- (a) Classification of Siwalik Group and their depositional environment
  - (b) Tectonic framework of India
  - (c) Bombay Offshore basin and its hydrocarbon potential