

Sl. No. of Ques. Paper : 1345 **F-7**
Unique Paper Code : 2191504
Name of Paper : **GEHT : Earth and Climate**
Name of Course : **B.Sc. (Hons.) Geology (Former FYUP)**
Semester : I
Duration : **3 hours**
Maximum Marks : **75**

(Write your Roll No. on the top immediately on receipt of this question paper.)

*Attempt any five questions.
All questions carry equal marks.*

1. Write short notes on:
 - (a) Northern Lights and Southern Lights
 - (b) Formation of ice caps at the poles.

2. Give short answers to the following:
 - (a) Why are there no seasons in countries near equator?
 - (b) What is Inter Tropical Convergence Zone?

3. What do you understand by Milankovitch cycles?

4. What is the mechanism behind surface ocean circulation? Why large gyres in northern and southern hemisphere are clockwise and anticlockwise respectively?

5. What are glacial and interglacial stages? What is LGM?

6. How is the specific heat of water responsible in various way to control the climate system?

7. Discuss:
 - (a) Role of foraminifera in deciphering paleoclimate

(b) Role of ice cores in deciphering paleoclimate.

8. What are various components of climate system and how are they interrelated?