PG CBCS M.A./M.SC. Semester-II Examination, 2021 GEOGRAPHY PAPER: GEO 296 PRACTICAL (REMOTE SENSING AND COMPUTER APPLICATION)

Full Marks: 50

Time: 3 Hours

The figures in the right-hand margin indicate full marks. Candidates are required to give their answers in their own words as practicable. Illustrate the answers wherever necessary.

Write the answer for each unit in separate sheet <u>GROUP/UNIT</u>

(GEO 296.1: PRINCIPLES OF REMOTE SENSING AND AERIAL PHOTOGRAPHY) Answer all questions from the following:

 What are the implications of the "Stefan-Boltzman" and "Wiens's" Displacement law in Remote Sensing? What is "black body" radiation? Define "signature" in the light of remote sensing?
10+2+3

OR

Discuss with examples-spectral, spatial, radiometric, and temporal resolutions. 15

2. Define eccentricity. Illustrate Kepler's laws of Planetary Motion. 2+8=10

OR

What are the major tasks involved in the interpretation of aerial photographs? 10

(2)

GROUP/UNIT

(GEO296.2: COMPUTER BASICS AND APPLICATION)

Answer all questions from the following:

 Elaborately discuss the numbering system with their base, digit and examples. Convert 12345' numbers to base 2 numbering system.
15

OR

What is logic gate? Discuss the different type of basic logic gates with proper diagram and input-output bit. 15

Briefly write about any five hardware of a computer system. Differentiate between system software and application software.
10

OR

What is binary arithmetic? Discuss the different types of binary arithmetic with examples. 10