Total pages: 1

PG (NEW) CBCS M.Sc. Semester-II Examination, 2020 GEOGRAPHY

PAPER: GEO 295 PRACTICAL

(REMOTE SENSING AND COMPUTER APPLICATION)

Full Marks: 30 Time: 2 Hours

Write the answer for each unit in separate sheet GEO296.1 PRINCIPLES OF REMOTE SENSING AND AERIAL PHOTOGRAPHY Answer any one question of the following: $15 \times 1 = 15$

- How do you measure the height of a building in an air photo from relief displacement?
- 2. What is orbital velocity of a satellite? Give a mathematical proof of $v = \sqrt{Gm/r}$, where v= orbital velocity, g= gravitational constant, m= the mass of the larger body, r= radius of the circular orbit. 5+10=15
- 3. State implications of Wine's displacement law in the thermal remote sensing. 15
- 4. What is electromagnetic radiation? How do you explain the radiation from an object using the wave and particle theory? 6+9=15
- 5. How do you derive the Keplar's law of T2dr3 for orbiting satellite around the earth? Explain the concept of Black Body radiation. 10+5=15

GEO296.2 COMPUTER BASICS AND APPLICATION Answer any one question of the following: $10 \times 1 = 10$

- Write down the proper steps and content to make a 7 slides power point presentation about Stockholm conference.
- Elaborately discuss the numbering system with their base, digit and examples.
 Convert '12345' number to base 2 numbering system.
 10+5=15
- 3. What is binary arithmetic? Discuss the different types of binary arithmetic with examples. 3+12=15
- 4. What is logic gate? Discuss the different type of basic logic gates with proper diagram and input-output bit. 3+12=15
- 5. Briefly write about any five hardware of a computer system. Differentiate between system software and application software. 8+7=15