JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST -1 EXAMINATION- FEB-2023

COURSE CODE(CREDITS): 19B1WEC837 (3)   MAX. MARKS: 15

COURSE NAME: Remote Sensing and Satellite Image Processing

COURSE INSTRUCTORS: Lt. Pragya Gupta   MAX. TIME: 1 Hour

Note: All questions are compulsory. Marks are indicated against each question in square brackets.

Q1. What are the stages of Remote sensing? Give some of the major advantages and limitations of remote sensing.   **[CO-1] [3]**

Q2. Draw and explain the irradiance distribution curve for the sun and earth. How the total radiant exitance is related to the temperature of the emitting material?   **[CO-1] [3]**

Q3. Give the advantages and disadvantages of space-borne and air-borne remote sensing.

[CO-1] [3]

Q4. Draw the Spectral reflectance curve for healthy vegetation. Also, explain how and why reflectance from healthy vegetation varies with wavelength.   **[CO-1] [3]**

Q5. Write a note on the following-   **[CO-2] [3]**

(a)- Digital Number(DN)

(b)- Ground Truth

(c)- Bidirectional Reflectance Distribution Function (BRDF)