



6) Short answer questions (Each question is of one mark)-

[10]

- i. What is the equation used for calculating G (green) value in terms of HSI components?
- ii. What is Polar and Sun synchronous orbit?
- iii. What is the equation used to obtain I (Intensity) component of each RGB pixel in RGB colour format?
- iv. How many bit RGB colour image is represented by full-colour image?
- v. Suppose you have a digital image which has a radiometric resolution of 6 bits. What is the maximum value of the digital number which could be represented in that image?
- vi. Define Specular and Lambertian reflection.
- vii. What is Wien's displacement law?
- viii. How IFOV varies with angle of view?
- ix. How do we express total radiance mathematically recorded by the sensor?
- x. Define Apogee and Perigee.