

Practical exercise

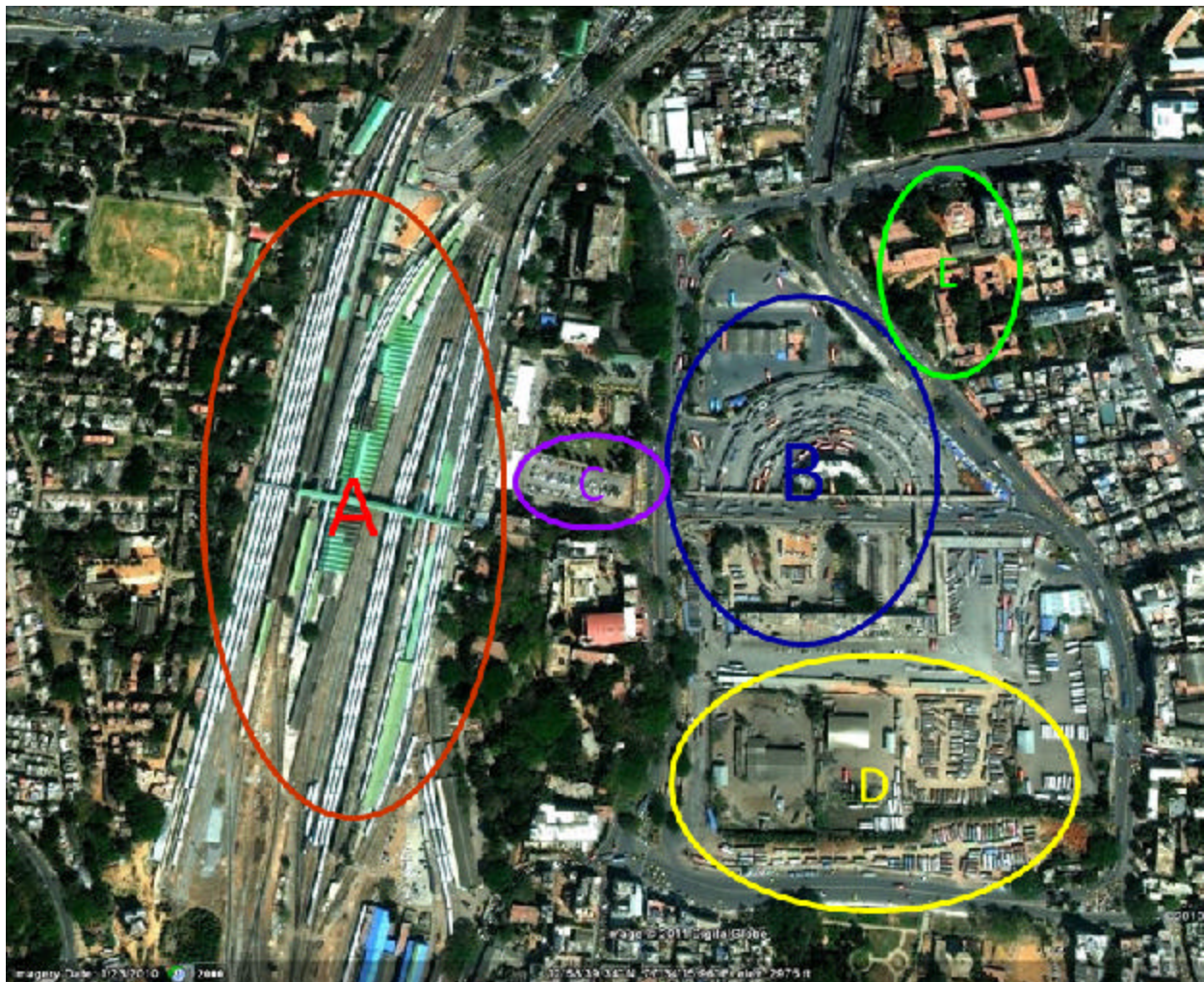
Remote Sensing and Image interpretation

Exercise 1 . Interpretation of Cultural Features from High Resolution Satellite Imagery

Objective

To develop an understanding for visual interpretation of cultural details (man -made features) from the given imageries in order to get an idea of resolution various types of features , element of interpretation and the type of cultural features which can be interpreted.

Material : High Resolution Image from GEOEYE satellite (Picture1.jpg)



Q. 1 Write down the Spatial, Spectral and radiometric Resolution of the Geo Eye satellite

Spatial Resolution

Spectral Resolution

Radiometric Resolution

Q. 2 Interpret and answer the following (Picture1)

1. Identify the use of land marked in A , B,C,D
2. Identify the Road and railway line.
3. Identify the Flyover, Bridge and Rail over road crossing
4. What is the prominent horizontal linear feature in A
5. Observe the sloping Roofs in A and D. Comment on the difference in building material of the two roof types.
6. In the Object Marked in E , Comment on the probable use of the campus as compared to samller buildings in the vicinity

Q.3 Answer the following based on Picture 2



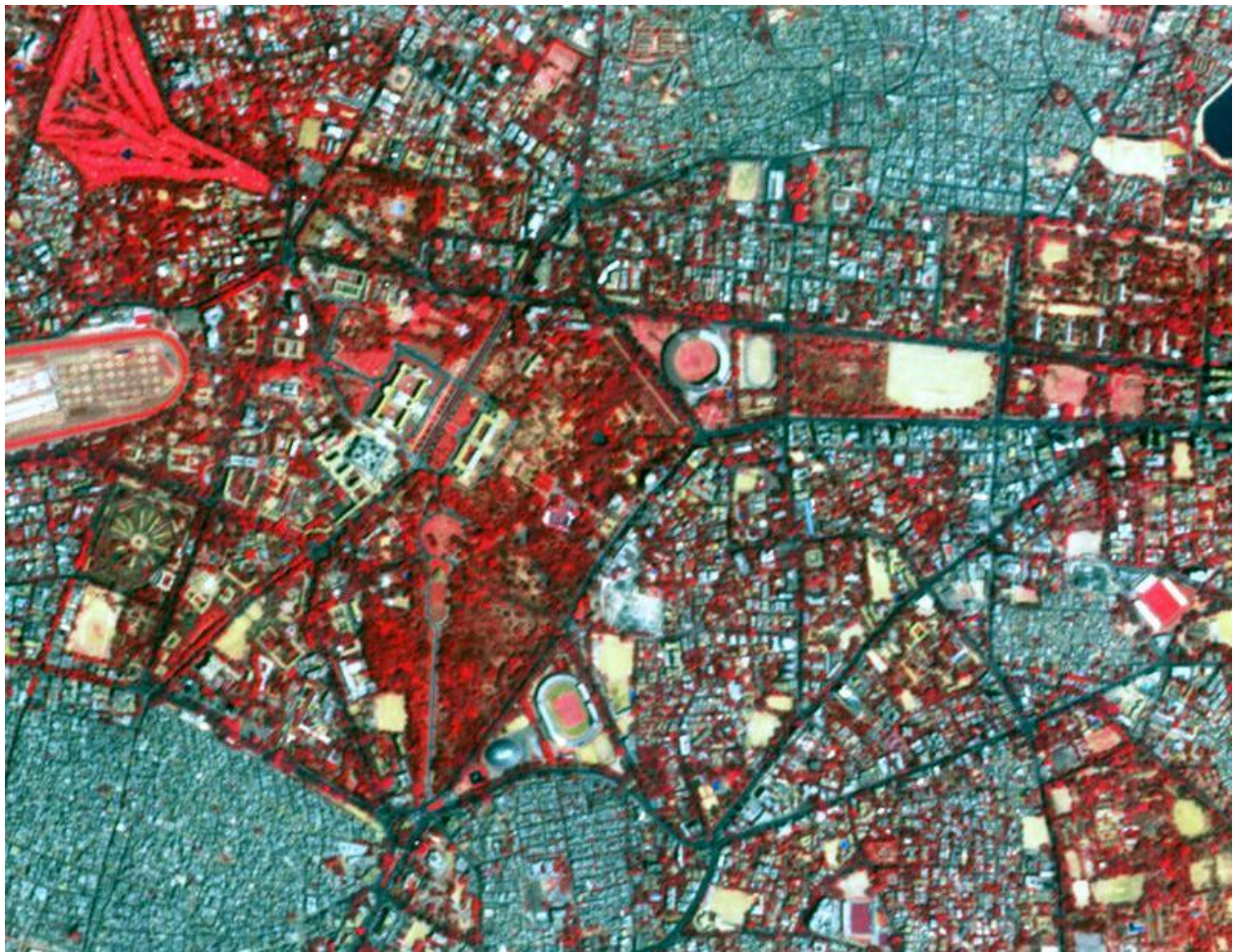
1. How are the three playing ground marked in 1,2,3 different .
2. In object 3 Identify the covered spectator seats and the open spectator seat
3. Identify the direction of Sun (Hint : Shadows).

Exercise 2 : Preparation of Interpretation Key

Objective :

To develop an understanding for visual interpretation of surface features on False colour composite satellite image.

Material : False Colour Composite Imagery
True Colour Imagery



False Colour Composite- IRS P6 LISS IV (NIR(0.77-0.86, Red(0.62-0.68), Green(0.52-0.59))



Identify the objects from False colour composite CC and True colour composite and make an interpretation key in a tabular form

Sl.No	Object	True Colour	Colour on FCC	Element of Interpretation in addition to colour
1	Race Course			
2	Golf Course			
3	Indoor Stadium			
4	Outdoor Games Stadium			
5	Lake			
6	Dry Soil			
7	Trees /Dense vegetation			
8	Urban Area			
9	Grass / Thin Vegetation			