Unit 1

Q1. Define the following term
A. Pixels
B. Resolution
C. Analog image
D. Digital image
E. DIP
F. black an white image / binary image
G. Gray scale image
H. Color image / RGB

Q2. What is DIP and applications

Q3. State and explain with diagram the phases of image processing

Q4. State and explain with diagram components of image

processing

Q5. Explain image sensing and acquisition with its type

Q6. Explain fundamentals of image formation

Q7. State the difference between image sampling & image Quantization

Q8. Define
A. Megapixel
B. Pixel per inches
C. Pixel intensity
D. Resolution

Q9. Explain floating point

Q10. Define the terms
A. Region
B. Boundary
C. Digital path
D. Distance measure

Q11. Explain with an example (4 adjacency and 8 adjacency and calculate region, boundry and digital path

Q12. Explain HSI model in detail

Q13. State and explain RGB model to CMY model conversion (example deke solve karna hai)