Q1/ Why do we need digital image processing?

Q2/ What is the digital image?

Q3/ What is digital image processing?

Q4/ How the imaging machines advance our pictorial information?

Q5/ What are the electromagnetic waves?

Q6/ Related to question 1, how the digital imaging systems improved our pictorial information?

Q7/ What is positron emission tomography (PET)? And how it works?

Q8/ How the X-rays generated in the industrial fields?

Q9/ What is the computerized axial tomography (CAT)? how it works?

Q10/ In the equation $f(x, y)$, what does f represent:

a) Intensity

b) Distortion

c) Transparency

Q11/ In the equation $f(x, y)$, x represent the:

a) Row index

b) Column index

Q12/ **True** or **False**, the Segmentation process is the process that enhance the features of the image?

Q13/ In the image processing systems, why do we need a digitizer?

Q14/ Mention 6 components in a general-purpose digital image processing system