23- SI-Q4

(a) 不考

(b) $\frac{\partial 7}{\partial x}$: the change in image intensity along the x-axis

 $\frac{\partial I}{\partial y}$: the change in image intensity along the y-axis

It the change in image intensity over time

ot; the horizontal velocity

Dy: the vertical velocity

(c) 不考

(d)(i) D(G(Z)) >0

because the generated images are of poor quality and easily identified as fake by the discriminator

(ii) No, when the GAN is successfully traind D(G(3)) is ideally around of for generated ingres indicating the discriminator connot confidently distinguish between real and generated images. This implies that the generated images resemble real apples closely