

Date

No

②

Ta co': ~~$H(z)$~~

$$\text{Vdi } h(n) = u(n) \text{ thì } H(z) = \frac{z}{z-1}$$

Do đó:

$$h(n) = u(n) - u(n-2)$$

$$\Rightarrow H(z) = \frac{z}{z-1} - \frac{z-2}{z-3} = \frac{-2}{z^2-4z+3}$$

③

Ta có:

$$h(n) = f(n) + f(n-1)$$

$$\Rightarrow H(\Omega) = 1 + e^{-j\Omega}$$

$$= e^{-j0,5\Omega} [e^{j0,5\Omega} + e^{-j0,5\Omega}]$$

$$= e^{-j0,5\Omega} \cdot 2 \cos(0,5\Omega)$$

$$= \underbrace{2 \cos(0,5\Omega)}_{|H(\Omega)|} \cdot \underbrace{e^{j(-0,5\Omega)}}_{\angle H(\Omega)}$$

$$|H(\Omega)|$$

$$\angle H(\Omega)$$

$$\text{Cđ: } \angle H(\Omega) = -0,5\Omega$$

