[FD] HOANG LONG VU - 20204897

Question 1

Question 2

Question 3

```
(3) R(A, b, C,D)

I) C > D, C > A, B > C

an i<sup>D</sup>: ABCD

x<sup>1</sup>: BCD, (BCD) f = BCDA = R > C<sup>1</sup> = BCD

x<sup>2</sup>: ACD, (ACD) f = ACD ≠ R > L<sup>2</sup> = BCD

C<sup>3</sup>: ABD, (ABO) f = ABCD = R > C<sup>3</sup> = BD

K4: ABC, (ABC) f = ABCD = R > C f = B

Phinimal beag: B

Gandidate keag: B

(Bf = BCDA)

y Ninimal cover G = § C > D, C > A, B > C f

Decomposition: R<sub>A</sub>(CDA), R<sub>2</sub>(BC)
```

```
Abl > D, D > A

Abl > D, D > A

C: AbcD;

(bcD) t = BeDA = R > Kl = BCD

Kl: BCD;

(ACD) t = ACD f R > Kl = Kl

KS: ABD;

(ABC) t = ABCD = R > Kl = BC

Nt: ABC;

(ABC) t = ABCD = R > Kl = BC

ABCD = R > Kl = BC

Goudidate leg: Abl

Gudidate leg: Abl

Pecomposition: R(ABCD), R2(DA)
```

Ty AB+ C, AB+ D, C+A, D+B

a, K⁰ = ABCD

k¹ = BCD, (BCD)[†] = BCD = R → K¹ = CD

k² = ACD, (ACD)[†] = ARCD = R → K² = CD

k³ = ABD, (ABD)[†] = ARCD = R → K³ = D

k⁴ = ABC, (ABC)[†] = ABCD = R → K³ = D

k⁴ = ABC, (ABC)[†] = ABCD = R → K³ = D

c, Candidate hear: CD, (CD)[†] = CABD

c, Minimal cover: G = ½ AB+ CD, C+A, D+B &

Pr(ABCD), Rr(CA), Rr(DB)