

ID 2018963

## Exam for 06-34255 Artificial Intelligence2

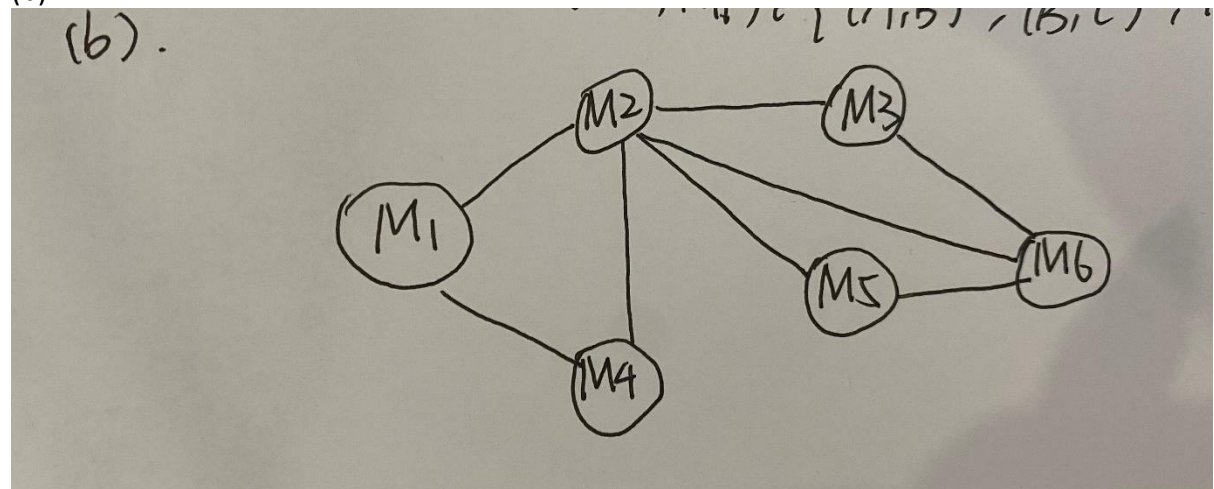
After inserting your student ID and the module name in the title, header and footer, write your answers between here and the statement of good academic conduct. Your ID and the module name will automatically appear on any subsequent pages.

## Question1

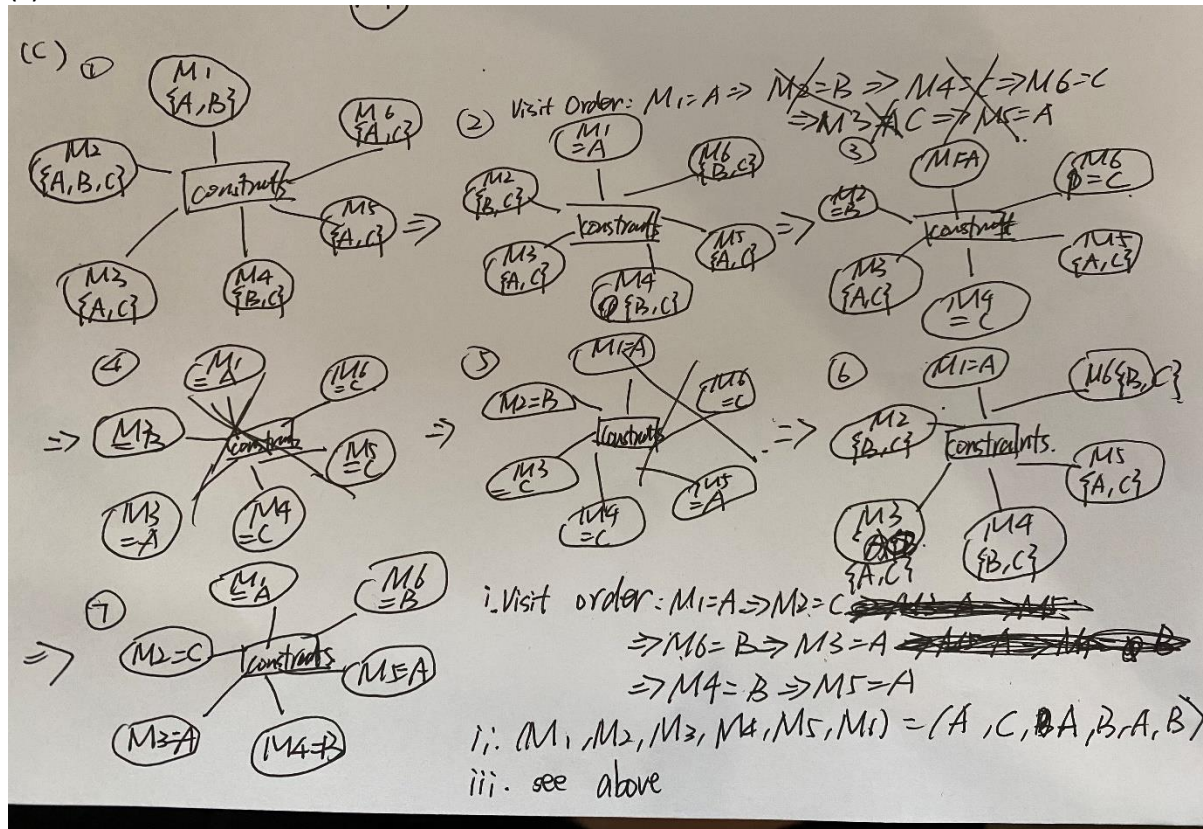
(a)

(a): variables:  $M_1, M_2, M_3, M_4, M_5, M_6$   
 domains:  $\{A, B, C\}$   
 Constraints: ~~implicit:  $M_1 \neq M_2, M_2 \neq M_3, M_3 \neq M_4, M_5 \neq M_6$~~   
 implicit:  $M_1 \neq M_2, M_2 \neq M_3, M_1 \neq M_4, M_5 \neq M_6, M_3 \neq M_6, M_2 \neq M_4, M_2 \neq M_5, M_2 \neq M_6$   
 explicit:  $(M_1, M_2) \in \{(A, B), (B, A), (A, C), (C, A)\}$   
 $(M_2, M_3) \in \{(A, C), (B, A), (B, C), (C, A)\}$   
 $(M_1, M_4) \in \{(A, B), (A, C), (B, C)\}$   
 $(M_5, M_6) \in \{(A, B), (A, C), (C, B)\}$   
 $(M_3, M_6) \in \{(A, B), (A, C), (C, B)\}$   
 $(M_2, M_4) \in \{(A, B), (A, C), (B, C), (C, B)\}$   
 $(M_2, M_5) \in \{(A, C), (B, C), (C, A), (B, A)\}$   
 $(M_2, M_6) \in \{(A, B), (B, C), (A, C), (C, B)\}$

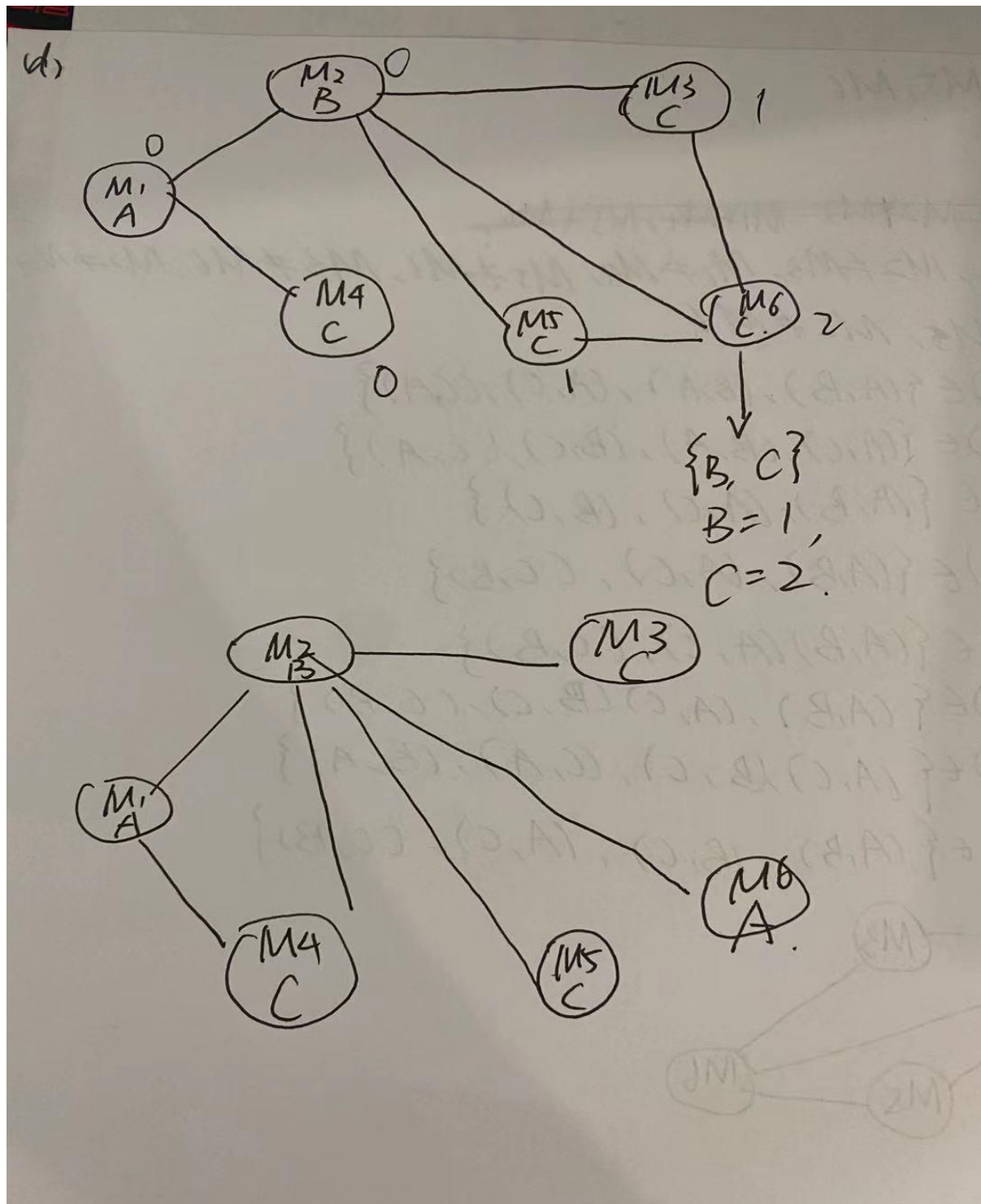
(b)



(c)



(d)



Do not write below this line

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