CS2100 Computer Organisation AY2021/22 Semester 1 Assignment 3 Answer Sheet

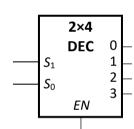
FULL NAME:	
STUDENT ID: E.g., <axxxxxxxy></axxxxxxxy>	
TUTORIAL GROUP:	

Question 0. Submission instructions (3 marks)

a. Name your file with your student number (eg: AxxxxxxxY>.pdf). (1 mark)	
b. There is only one PDF file in the submission folder. (1 mark)	
c. Your submission has your tutorial group number, student number and name. (1 mark)	Y/N

Question 1. MSI Devices (16 marks)

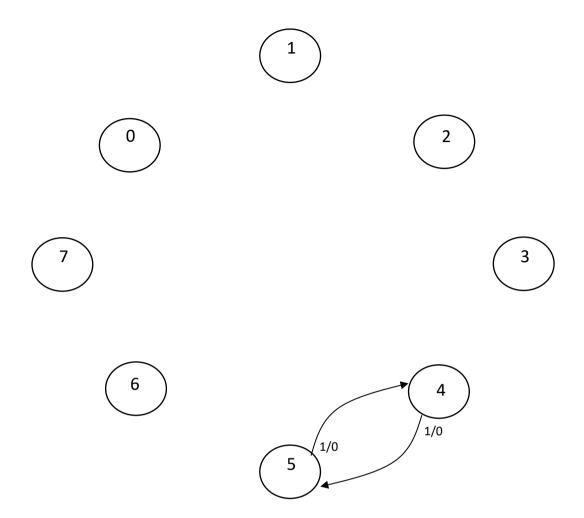
(a)
$$F(A,B,C,D) = \Sigma m(3, 5, 7)$$



(b) Simplified POS expression for G.

- (c) $H(A,B,C,D) = \Sigma m(1, 3, 4, 5, 6, 7, 10, 13, 14, 15)$
- (d) Simplified SOP expressions for J and K.

Question 2. Sequential Circuit (14 marks)



Question 3. Pipelining (7 marks) (a)	[1 mark]
(b)	[2 marks]
(c)	[2 marks]
(d)	[2 marks]