CS2100 Assignment 3 Answer Book

Name:	
Student ID:	
Tutorial Group Number:	

Save this file as AxxxxxxxY.pdf and submit on Canvas. You do NOT need to create a zip file.

You will forfeit up to 3 marks if you do not fill your particulars above, or do not follow the submission instructions.

Submission information: _____ / 3

Question 1. (6 MARKS)

(a) (2 marks) *F(A,B,C,D)* = $\boldsymbol{\Sigma m}$**(** **)**

(b) (2 marks) *G(A,B,C,D)* = $\boldsymbol{\Sigma m}$**(** **)**

(c) (2 marks) *H(D,C,B,A)* = $\boldsymbol{\Sigma m}$**(** **)**

Q1 Total: _____ / 6

Question 2. (6 MARKS)

(a) (2 marks) *X(A,B,C)* = $\boldsymbol{\Pi M}$**(** **)**

(b) (2 marks) *Y(A,B,C,D)* = $\boldsymbol{\Pi M}$**(** **)**

(c) (2 marks) *Z(C,B,A)* = $\boldsymbol{\Pi M}$**(** **)**

Q2 Total: _____ / 6

Question 3. (7 MARKS)

(a) (3 marks)

F =

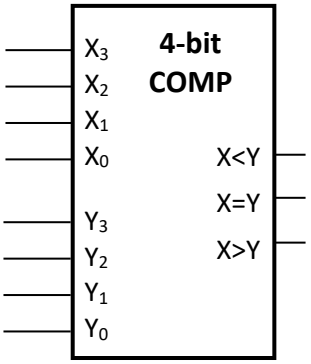
G =

H =

(b) (2 marks)

"The circuit converts a 3-bit to 3-bit ."

(c) (2 marks)

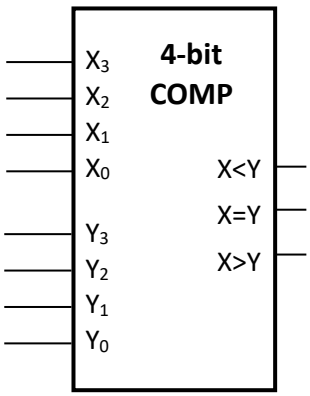


Q3 Total: _____ / 7

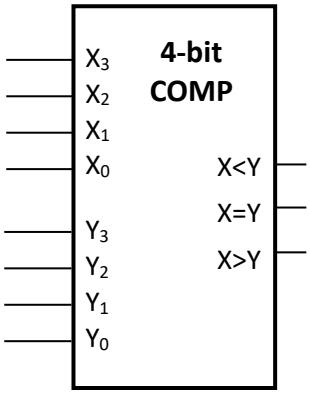
Question 4. (7 MARKS)

(a) (2 marks) $F(A,B,C,D)$ =

(b) (2 marks)



(c) (3 marks)



Q4 Total: _____ / 7

Question 5. (5 MARKS)

F_2 =

F_1 =

F_0 =

Q5 Total: _____ / 5

Question 6. (6 MARKS)

(a) (2 marks) State

(b) (2 marks) State

(c) (2 marks)

Q6 Total: _____ / 6

Total Marks: _____ / 40 (To be filled by TA only)

=== END OF PAPER ===