

CS2100 Computer Organization
2022/23 Semester I (2210 Semester)
Assignment 2
ANSWER BOOK

For submission please ensure that you save this file as a PDF called AxxxxxxY.pdf, where AxxxxxxY is your student ID. -3 marks if this is not done.

Question 0. (-3 marks details are missing)

Name:	
Student ID:	
Tutorial Group:	

Question 1 (Boolean Algebra – 8 MARKS)

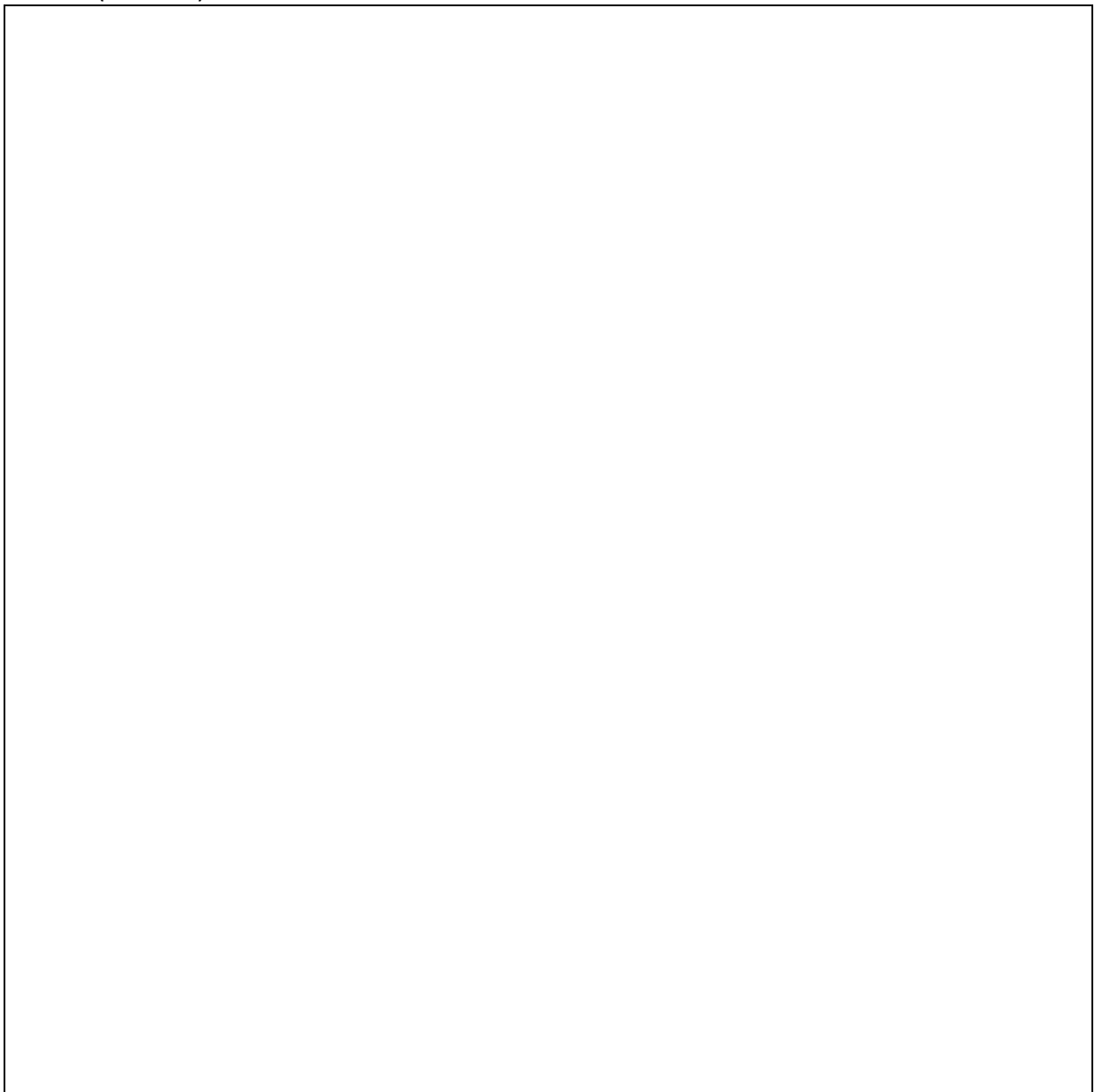
a. (3 marks)

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b. (1 mark)



c. (4 marks)



Question 2 (Combinational Circuits – 7 MARKS)

a. (3 marks)

b. (4 marks)

Question 3 (Sequential Circuits – 15 MARKS)

a.i. (4 marks)

TA =

TB =

TC =

a.ii. (4 marks)

USE AS FEW GATES AS POSSIBLE

b.i. (3 marks)

JA =

KA =

JB =

KB =

b.ii. (4 marks)

Question 4 (Cache – 10 MARKS)

a. (1 mark)

b. (3 marks)

c. (2 marks)

d. (1 mark)

e. (3 marks)