

4-23

$$X = A(B+C)$$

$$Y = (A + \overline{B})(\overline{B}C)$$

2marks

$$Z = \overline{BC} + \overline{(A+C)}$$

5-44

U8 IS LOCATED AT D7.

U8 IS A NAND GATE \Rightarrow IF PINS

11 AND 12 WERE CONNECTED TO

GND INSTEAD OF VCC, THE
OUTPUT AT PIN 8 WOULD ALWAYS
BE 1 REGARDLESS OF THE OTHER
INPUTS.

4marks