

d) Simplify the following:

i) $(A + B)(\overline{A} + B)$

ii) $A.B.(\overline{A} + B)$

iii) $\overline{A.B.C} + \overline{A.B.C} + A.\overline{B}.C + \overline{A}.B.C$

iv) $\overline{A + \overline{B} + \overline{B}}$

v) $\overline{A + \overline{B} + \overline{A.B}}$

e) Using a Karnaugh Map, simplify: $A.B.\overline{C} + A.\overline{B}.\overline{C} + \overline{A}.\overline{B}.C + A.B.C + \overline{A}.\overline{B}.C$