- A. Consider the following propositions:
 - p: Lecturers are generous.
 - q: Students hate attending classes

Write the compound propositions symbolized by:

- $\begin{array}{ll} \text{(i)} & p \vee \bar{q} \\ \text{(ii)} & (\overline{q \wedge p}) \\ \text{(iii)} & \bar{p} \rightarrow q \end{array}$

- 1. Lecturers are generous or students do not hate attending classes
- 2. Students do not hate attending classes or lecturers are not generous
- 3. If lecturers are not generous then students hate attending classes
- B. Let *p* be the proposition 'Today is Public Holiday' and *q* be 'I'll go to Town'. Write the following propositions symbolically.
 - 1) Today is Public Holiday or I'll go to Town, but not both.
 - $p \times q$
 - 2) If today is Public Holiday, then I won't go to Town.
 - p -> ¬q
 - 3) I'll go to Town and today is not Public Holiday
 - q ∧ ¬p
 - 4) Today is public Holiday but I will not go to Town p ∧ ¬q