Q27. The contra positive of the statement

"If 7 is greater than 5, then 8 is greater than 6" is

(a) If 8 is greater than 6, then 7 is greater than 5

(b) If 8 is not greater than 6, then 7 is greater than 5

(c) If 8 is not greater than 6, then 7 is not greater than 5

(d) If 8 is greater than 6, then 7 is not greater than 5

Sol: (c) Let p: 7 is greater than 5.

and q: 8 is greater than 6.

∴ P → q

~p: 7 is not greater than 5.

~q: 8 is not greater than 6.

(~q) → (~p) i.e., if 8 is not greater than 6, then 7 is not greater than 5.