

CSE-103Subject: Assignment from Book. Student Id: **1705069**Chapter no.: **1** Verifying Student Id: **1705030**Section no.: **1**Exercise no.: **39****39.** Construct a truth table for $(p \leftrightarrow q) \leftrightarrow (r \leftrightarrow s)$.

Answer :

p	q	r	s	$p \leftrightarrow q$	$r \leftrightarrow s$	$(p \leftrightarrow q) \leftrightarrow (r \leftrightarrow s)$
F	F	F	F	T	T	T
F	F	F	T	T	F	F
F	F	T	T	T	T	T
F	T	F	F	F	T	F
F	T	F	T	F	F	T
F	T	T	F	F	F	T
F	T	T	T	F	T	F
T	F	F	F	F	T	F
T	F	F	T	F	F	T
T	F	T	F	F	F	T
T	F	T	T	F	T	F
T	T	F	F	T	T	T
T	T	F	T	T	F	F
T	T	T	F	T	F	F
T	T	T	T	T	T	T
F	F	T	F	T	F	F