Minor Exam. B.Tech. (IT)-4th Sem. Subject: STLD

Time Duration:1 hour Max. Marks:20

Each question carry equal marks.

- 1. What is universal gate? Define NAND gate is a universal gate.
- 2. Design full adder using half adder.
- 3. Minimise the following logic function using K-map. $f(A, B, C, D) = \Sigma m(1, 3, 7, 8, 10, 11, 12, 15) + d(0, 2, 5)$
- 4. Design 3 bit binary-to-gray code converter.