PHYSICS(HONOURS)

PAPER:DC-7P

[CBCS]

F.M:15 Time: 2h.

Answer all the questions given below: 5x3=15

- 1. What are digital signals and digital circuits?
- 2.Design (a) a full adder and (b) a full subtractor using EX-OR and basic gates.
- 3.Define a sequential logic circuits. How does it differ from combinational circuits?
- 4. What is meant by race-around condition? How can it be avoided?
- 5. What is a synchronous counter? What is its advantage over asynchronous counters?