

Part 1

① We synchronise using multiple techniques and method but mainly we use:

- Baud Rate, Start Bit, and End (stop) bits

② 1- It can't detect Error bits inside the data Bits

2- Framing errors where the receiver doesn't identify the start & stop correctly

③ No, UART provides a limited number of Baud rates.

④ Advantages:

- Reduced pin count

- Simplified wiring

- Faster Communication

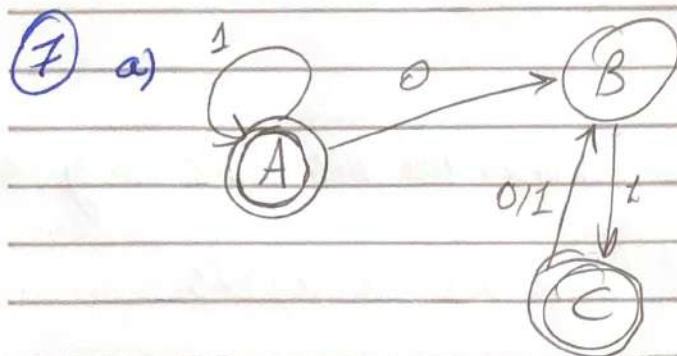
- Lower Power Consumption

Disadvantages:

- Complex protocol
- Propagation delay
- Limited flexibility
- Signal integrity.

⑤ Bidirectional Communication, Wired-OR Configuration, Compatibility, Bus Arbitration, Simple hardware, Noise reduction

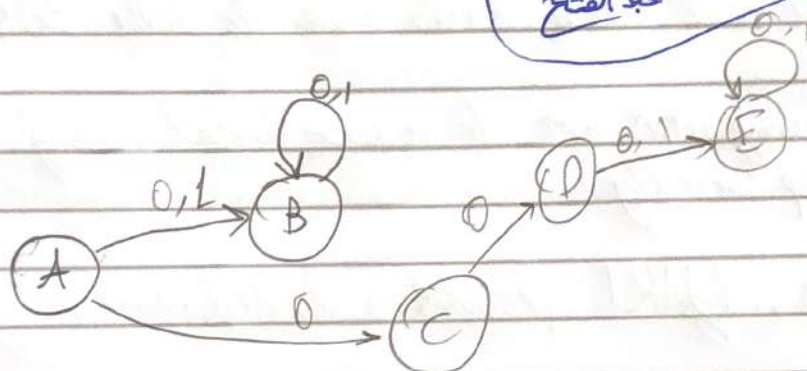
Part 2:-



I acknowledge that
I am aware of the
academic integrity guidelines
of this course and that
I worked on this assignment
independently without
any unauthorized help

أنا أعترف بذلك
أنا على علم بالخطوط
أدب

6)



	0	1
A	{B, C}	B
B	B	B
C	D	-
D	E	E
E	E	E
{B, C}	{B, C} {B, D}	B
{B, D}	{B, D, C}	{B, E}
{B, D, C}	{B, C, E}	{B, E}
{B, E}	{B, E}	{B, E}