## BURDWAN RAJ COLLEGE

## INTERNAL EXAMINATION (6th Sem)

Paper Title - Theory Of Computation (BCA601)

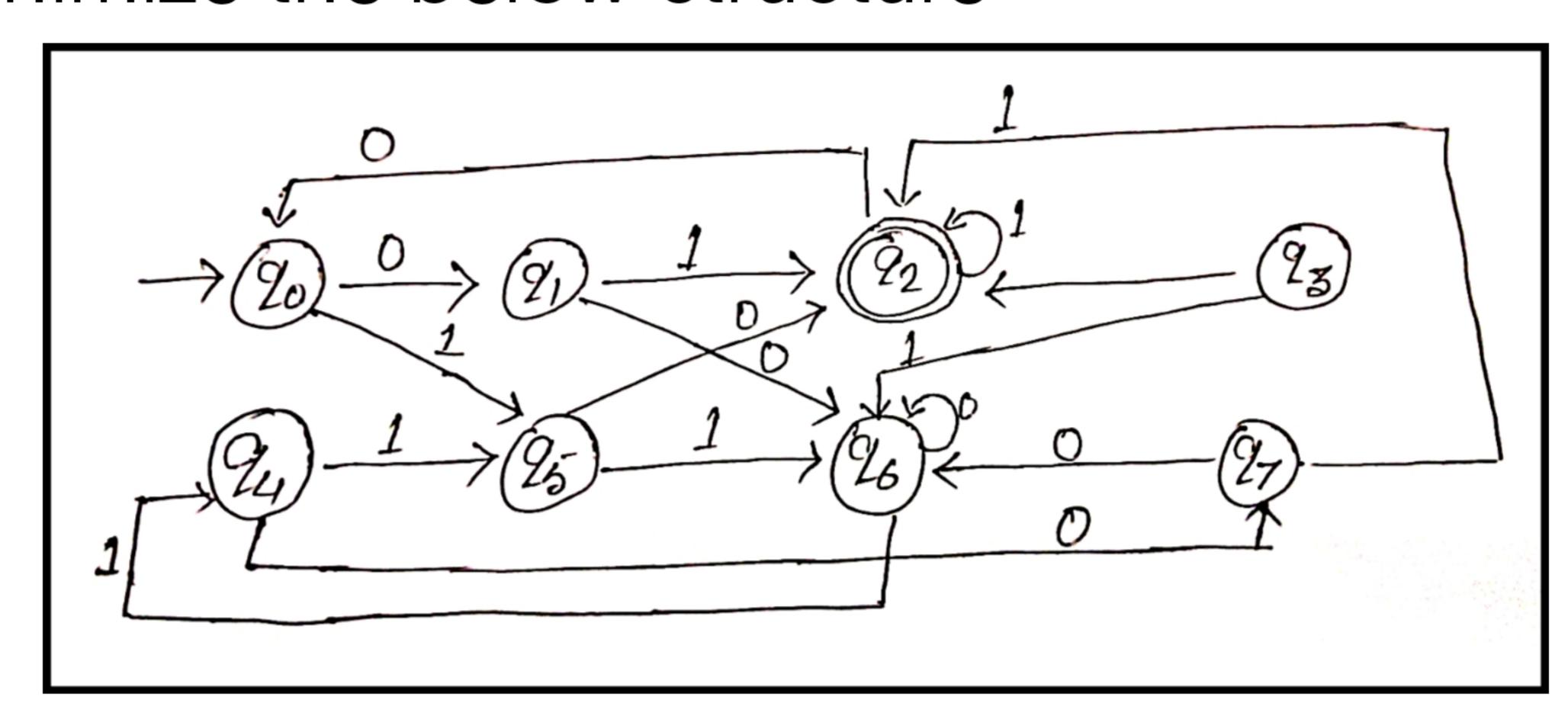
Answer any 5 questions

4 X 5 = 20

- 1.Difference between DFA and NFA.
- 2. Design Pushdown automata M to accept the language,

$$L=\{0^n 1^n | n>=1\}$$

- 3. What is Null production? Give example.
- 4. Minimize the below structure-



- 5. Prove that complement of regular language is regular.
- 6.Construct DFA for the Regular Expression

$$(A+B)*ABB.$$

7. Convert the grammar with production,

8. Convert the below table from Moore to Mealy Machine -

Cuerent State	<u>_</u> _a_	6	1 Output
20	23	2	0
2,	20	2,	1
22	22	20	
23	2/2	9,	