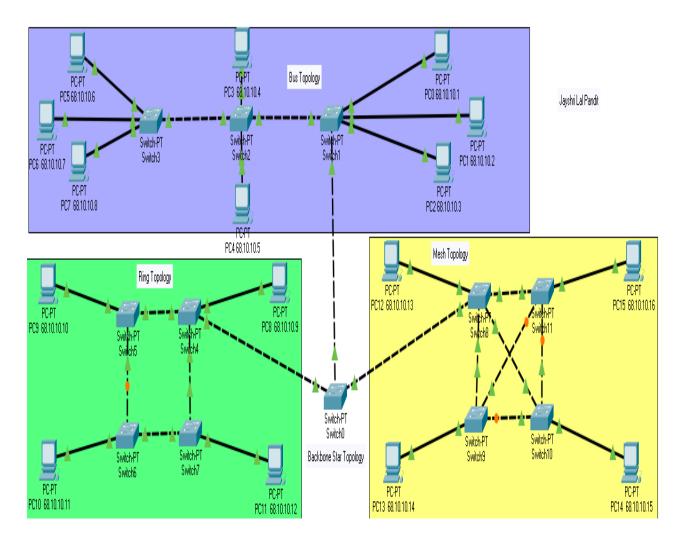# Answer Sheet

Online Assignement-1

Course Code:	CAP 276	Course Title:	Data Communication and Networking-Laboratory		
Course Instructor: Avinash Bhagat					
Student's Roll no:	RD2112A103		Student's Reg. no:	12111670	
Name: Jayshri Lal Pandit					
Set Assigned (Tick):		B	Page No.	1	Total Pages 3

1. **Objective** (Description of the practical to be performed)**:**
We have to design a network topology with a Star backbone connected Bus, Ring and Mesh topologies. Every topology have four hosts in it. A topology is used to explain how a network is physically connected and the logical flow of information in the network. A topology mainly describes how devices are connected and interact with each other using communication links.

2. **Network Snapshot with proper labelling:**

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3. Initial IP Configuration:

Device	Interface	IP Configuration	Connected with
PC0	Fa0	68.10.10.1	Switch1
PC1	Fa0	68.10.10.2	Switch1
PC2	Fa0	68.10.10.3	Switch1
PC3	Fa0	68.10.10.4	Switch2
PC4	Fa0	68.10.10.5	Switch2
PC5	Fa0	68.10.10.6	Switch3
PC6	Fa0	68.10.10.7	Switch3
PC7	Fa0	68.10.10.8	Switch3
PC8	Fa0	68.10.10.9	Switch4
PC9	Fa0	68.10.10.10	Switch5
PC10	Fa0	68.10.10.11	Switch6
PC11	Fa0	68.10.10.12	Swtich7
PC12	Fa0	68.10.10.13	Swtich8
PC13	Fa0	68.10.10.14	Switch9
PC14	Fa0	68.10.10.15	Switch10
PC15	Fa0	68.10.10.16	Switch11
Switch0	Fa0/1,Fa1/1,Fa2/1	------------------------------	Switch1,Switch4,Switch8
Switch1	Fa0/1,Fa1/1,Fa2/1,Fa3/1	------------------------------	Switch0,Switch2
Switch2	Fa0/1,Fa1/1,Fa2/1,Fa3/1	------------------------------	Switch3,Switch2
Switch3	Fa0/1,Fa1/1,Fa2/1,Fa3/1	------------------------------	Switch2
Switch4	Fa0/1,Fa1/1,Fa2/1,Fa3/1	------------------------------	Switch5,Switch7
Switch5	Fa0/1,Fa1/1,Fa2/1	------------------------------	Switch4,Switch6
Switch6	Fa0/1,Fa1/1,Fa2/1	------------------------------	Switch5,Switch7
Switch7	Fa0/1,Fa1/1,Fa2/1	------------------------------	Switch6,Swich4
Switch8	Fa0/1,Fa1/1,Fa2/1,Fa3/1	------------------------------	Switch9,Switch11
Switch9	Fa0/1,Fa1/1,Fa2/1,Fa3/1	------------------------------	Switch8,Switch12
Switch10	Fa0/1,Fa1/1,Fa2/1,Fa3/1	------------------------------	Swich9,Switch11
Switch11	Fa0/1,Fa1/1,Fa2/1,Fa3/1	------------------------------	Switch8,Switch10

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4. Process Description:

Step-1: Create Bas topology using Switches and connect minimum four host in it.
Step-2: Create Ring topology using Switches and connect some hosts in it.
Step-3: Create Mesh topology using Switches and connect some hosts in it.
Step-4: Connect above three topology to the Star backbone topology.
Step-5: After above task we have to assign all topology hosts with IP addresses.