

ISP company: “Fastest”

1. The company provides its services to six cities. The cities are:

- a) Dhaka(512)
- b) Gazipur(32)
- c) Narsingdi(8)
- d) Tangail(64)
- e) Manikganj(16)
- f) Munshiganj(256)

Set up a router for each city and the routers are configured in such a way that they support four times the number of hosts currently assigned.

- 2. Tangail and Gazipur can communicate without human intervention.
- 3. Munshiganj, Manikganj, and Narshindhi are connected with each other so that they can route among them 100% securely.
- 4. Dhaka works as a connector between these two groups.
- 5. Gazipur and Narsindi have a connection between them and this connection only works if the Dhaka router stops working. Otherwise, every packet from Gazipur-Narsingdi travels via Dhaka.
- 6. No default route was used while exchanging packets within the topology. Data is delivered using static or dynamic routes only.
- 7. While assigning IP addresses to Dhaka, a Server named “Distributor” is created which assigns IP addresses to host devices dynamically.
- 8. A web server named “BARI” is connected with Gazipur which displays “Welcome to Gazipur”.
- 9. Showing 2 end devices per network to represent the whole population in the pkt packet file.
- 10. I can ping each network from another after all the setups are completed.