- **Print your name.**

- Close-book policy: You may not use the text, my class notes and/or any notes and study guides you have created. You may use a calculator. You may not use a cell phone or computer.

| Problem | Points | Score |
|---------|--------|-------|
| 1       | 1      |       |
| 2       | 1      |       |
| 3       | 1      |       |
| 4       | 1      |       |
| 5       | 1      |       |
| Total:  | 5      |       |

1. (1 point) Which of the following applies (apply) to the routing infrastructure?

    A. routers in different AS can run different intra-domain routing protocols

    B. gateway routers, whether from same AS or not, must run the same inter-domain protocol

    C. gateway routers perform intra-domain routing as well as inter-domain routing

    **D. all of the above**

2. (1 point) Which of the following applies (apply) to BGP (border gateway protocol)

    **A. the glue that stitches together the Internet**

    B. one of the many inter-domain routing protocols

    C. also establishes routes within a domain

    D. all of the above

3. (1 point) Which of the following applies (apply) to BGP policy

    **A. with the policy based on `AS-PATH`, BGP is no longer a selfish protocol**

    B. uses import policy to advertise path to other neighboring domains

    C. uses export policy to accept/decline routes from neighboring domains

    D. all of the above

4. (1 point) A golden rule of BGP policy is that any traffic following across an ISP's backbone network must have either a source or a destination (or both) in a network that is a customer of that ISP.

    **A. True**    B. False

5. (1 point) Which of the following step(s) in BGP route selection process make BGP unselfish?

    A. pick route with highest local preference

    **B. pick route with shortest AS-PATH**

    C. pick route with closest NEXT-HOP router

    D. all of the above