

1 / 1 point

1. Among the following descriptions on IGP (Interior Gateway Protocol) and EGP (Exterior Gateway Protocol), which is incorrect?
- ☐ The most widely used IGP in the Internet is OSPF (Open Shortest Path First)
  - ☐ The EGP used in the Internet is BGP4 (Border Gateway Protocol version 4)
  - ☒ IGP categories include OS (Open-State) and CV (Closed-Vector) routing protocols
  - ☐ IS-IS (Intermediate System to Intermediate System) is an IGP
  - ☐ eBGP (external BGP) is BGP routing used between ASs (Autonomous Systems)
  - ☐ iBGP (internal BGP) is BGP routing used within an AS
  - ☐ BGP4 routing path selection is based on network policies and administrator configured rule-sets

✓ **Correct**

This is an incorrect statement, so this is the answer. IGP categories include LS (Link-State) and DV (Distance-Vector) routing protocols

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2. Among the following statements on OSPF (Open Shortest Path First) and BGP (Border Gateway Protocol), which is incorrect?

- ☒ BGP security is easy to maintain because each ISP (Internet Service Provider) takes good care of their security system
- ☐ BGP routers need to exchange (setup and update) information with each other to be able to adapt to changes in routing and security conditions
- ☐ OSPF protocol results in a loop-free SPT (Shortest Path Tree) to be used for routing packets
- ☐ OSPF can use RTT (Round-Trip Time), reliability, availability, distance of a router, number of hops to reach the destination, or the throughput as a link cost factor

✓ **Correct**

This is an incorrect statement, so this is the answer. BGP security is a changeling issue because BGP routers commonly belong to different ISPs, and therefore routers of different ISPs may use different encryption and security schemes

3. Among the following descriptions on ARP (Address Resolution Protocol) and NAT (Network Address Translation), which is incorrect?

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- ☐ In a Wi-Fi mobile device, ARP can be used to map the mobile device's IPv4 address to its Wi-Fi MAC (Medium Access Control) address
- ☐ ARP parameter values are managed by the IANA (Internet Assigned Numbers Authority)
- ☒ IPv6 networks use NAT (Network Address Translation) for ARP functionality
- ☐ One-to-Many NAT (also known as IP Masquerading) is one of the solutions for the IPv4 address space exhaustion problem, because it helps to save IPv4 address space due to higher efficiency in IP address usage, and provides enhanced security

✓ **Correct**

This is an incorrect statement, so this is the answer. IPv6 networks use NDP (Neighbor Discovery Protocol) for ARP functionality

4. Among the following descriptions on RPC (Remote Procedure Call) and FTP (File Transfer Protocol), which is incorrect?

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- ☐ RPC is used to enable a function or procedure to be executed on a remote computer, and therefore, RPC can enable access to a remote computer as if it is a local computer
- ☐ FTP with TLS (Transport Layer Security) protection (FTPS) is commonly used to transfer files from a server to a client computer with protection
- ☒ FTP active mode is used when the client is behind a firewall and cannot accept incoming TCP connections from the server
- ☐ FTP Stream mode uses TCP to send data in a continuous stream
- ☐ FTP Block mode divides data into blocks and uses TCP to transfer the data blocks
- ☐ FTP Compressed mode applies data compression when transferring data

✓ **Correct**

This is an incorrect statement, so this is the answer. This is a description of FTP passive mode (not active mode). FTP passive mode is used when the client is behind a firewall and cannot accept incoming TCP connections from the server