## Tutorial 12 – FHRP

**1. Which protocol is the Cisco proprietary implementation of FHRP?**  
A. HSRP  
B. VRRP  
C. GLBP  
D. DHCP

**2. Which IEEE standards-based First Hop Redundancy Protocol is a Cisco supported alternative to Hot Standby Router Protocol?  
A. VRRP  
B. GLBP  
C. TFTP  
D. DHCP**

**3. What are two requirements for an HSRP group? (Choose two)  
A. exactly one active router  
B. one or more standby routers  
C. one or more backup virtual routers  
D. exactly one standby active router  
E. exactly one backup virtual router**

**4.  Which three options are the HSRP states for a router? (Choose three)  
A. start  
B. learn  
C. secondary  
D. listen  
E. speak  
F. primary**

**5. Which value to use in HSRP protocol election process?  
A. interface  
B. virtual IP address  
C. priority  
D. router ID**

**6. How does HSRP provide first hop redundancy?**

**A. It load-balances traffic by assigning the same metric value to more than one route to the same destination in the IP routing table.**

**B. It load-balances Layer 2 traffic along the path by flooding traffic out all interfaces configured with the same VLAN.**

**C. It forwards multiple packets to the same destination over different routed links in the data path**

**D. It uses a shared virtual MAC and a virtual IP address to a group of routers that serve as the default gateway for hosts on a LAN**

**7. Please use the following diagram to illustrate how HSRP works in the following scenarios**

* **R1 – Priority 150 with pre-empt**
* **R2 – Default priority**

1. **Normal operation**
2. **R1 went offline due to power failure**
3. **R1 went back online**

