1.Which protocol gives a full route table update every 30 seconds?  
a) IEGRP  
**b) RIP**c) ICMP  
d) IP

2.\_\_\_\_\_\_\_\_\_ is the default administrative distance of RIP.  
a) 0  
b) 90  
**c) 120**d) 130

3. Which of the following is true regarding RIPv2?  
a) It has a lower administrative distance than RIPv1  
b) It converges faster than RIPv1  
**c) It has the same timers as RIPv1**  
d) It is harder to configure than RIPv1

4.  Which command displays RIP routing updates?  
a) Show IP route  
**b) Debug IP rip**c) Show protocols  
d) Debug IP route

5. Default administrative distance of a static route is \_\_\_\_\_\_\_\_  
a) 0  
b) 90  
c) 100  
**d) 1**

**6.**  Which statement is true regarding classless routing protocol?  
a) The use of discontinuous networks is not allowed  
**b) Use of variable length subnet masks is permitted**  
c) RIPv1 is a classless routing protocol  
d) IGRP supports classes routing within the same autonomous system

7. Which of the following is true regarding RIPv2?  
a) It has a lower administrative distance than RIPv1  
b) It converges faster than RIPv1  
**c) It has the same timers as RIPv1**  
d) It is harder to configure than RIPv1

8. The computation of the shortest path in OSPF is usually done by \_\_\_\_\_\_\_\_\_\_\_\_  
a) Bellman-ford algorithm  
b) Routing information protocol  
**c) Dijkstra’s algorithm**  
d) Distance vector routing

9. Open Shortest Path First (OSPF) is also called as \_\_\_\_\_\_\_\_\_\_\_\_\_  
a) **Link state protocol**  
b) Error-correction protocol  
c) Routing information protocol  
d) Border gateway protocol

10. In OSPF, which protocol is used to discover neighbour routers automatically?  
a) Link state protocol  
b) Error-correction protocol  
c) Routing information protocol  
**d) Hello protocol**

**11.** Which of the following is not a type of OSPF packet?  
a) Hello  
b) Link-state request  
**c) Link-state response**  
d) Link-state ACK

12.  In OSPF header, which field is used to detect errors in the packet?  
a) Type  
b) Area ID  
c) Authentication type  
**d) Checksum**

**13.**  In OSPF database descriptor packet, which field is used to detect a missing packet?  
a) LSA header  
b) MS  
**c) Database descriptor sequence number**  
d) Options

14. An OSPF router receives an LSA, the router checks its sequence number, and this number matches the sequence number of the LSA that the receiving router already has. What does the receiving router do with the LSA?  
**a) Ignores the LSA**  
b) Adds it to the database  
c) Sends newer LSU update to source router  
d) Floods the LSA to the other routers

15.  An OSPF router receives an LSA. The router checks its sequence number and finds that this number is lower than the sequence number it already has. What does the router do with the LSA?  
a) ignores the LSA  
b) adds it to the database  
**c) sends newer LSU update to source router**  
d) floods the LSA to the other routers