

Time :2 ½ Hours

[Total Marks:  
60]

- N.B:** (1) All questions are compulsory.  
(2) Figures to the **right** indicate full marks.  
(3) **Assume additional data if necessary** but state the same clearly.  
(4) Symbols have their usual meanings and tables have their usual standard design unless stated otherwise.

- Q.1 Attempt **any two** of the following (12)  
a) State and Explain different challenges in Ad-hoc Networking. 06  
b) State and Explain the difference between WAN and MAN. 06  
c) Explain any one routing protocol in detail 06  
d) Write a short note on OSI Model. 06
- Q.2 Attempt **any two** of the following (12)  
a) State and Explain advantages of Software Defined Networking. 06  
b) Discuss Openflow in detail with example. 06  
c) Write a short note on SDN Data Plane. 06  
d) Explain the working of SDN Application Plane. 06
- Q.3 Attempt **any two** of the following (12)  
a) Explain SDN Virtualization architecture. 06  
b) Write a short note on Cloud Modern Networking Architecture. 06  
c) Write a short note on Fog Compting. 06  
d) Explain different components of IoT. 06
- Q.4 Attempt **any two** of the following (12)  
a) Write a short note on Access control List. 06  
b) State and Explain MPLS implementation. 06  
c) Write a short note on VRF 06  
d) Discuss and relate implementation of OSPF v2 and V3. 06
- Q.5 Attempt **any two** of the following (12)  
a) Discuss the Implementation of IPv6 along with their components. 06  
b) Write a short note on SDN Control Plane. 06  
c) How QoS is achieved in Modern Networking? 06  
d) Explain the concept of Load balancing with example. 06

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