Mumbai University

May – 2019

B.Sc.IT: Semester – VI

(Question Paper)

[CBCS – Choice Based]

Enterprise Networking

ENTERPRISE NETWORKING

MAR – 2019 | CBCS – CHOICE BASED

MUMBAI UNIVERSITY
B.SC.IT: SEM-VI
CHOICE BASED

Time: 2 ½ Hours **Total Marks:** 75

NOTE:

(1) *All questions (Q.1 to Q.5) are compulsory.*
(2) *Figures on the right indicate total marks. All sub-questions carry equal marks.*
(3) *Write the question numbers clearly as mentioned in the Question Paper.*
(4) *Mixing of sub-questions is not allowed.*
(5) *Draw diagrams and give examples whenever necessary.*
(6) *Use of calculator or any other electronic gadget is not allowed.*

Q.1 ATTEMPT ANY THREE QUESTIONS: (15 MARKS)

(A)	Explain in details Architectures for the Enterprise.	**(5)**
(B)	Discuss the PPDIOO Phases in details.	**(5)**
(C)	Explain different layers of Hierarchical Network design.	**(5)**
(D)	What are the different Redundancy Techniques? Discuss in details.	**(5)**
(E)	Explain HSRP, VRRP and GLBP.	**(5)**
(F)	Explain in details different Network Audit Tools.	**(5)**

Q.2 ATTEMPT ANY THREE QUESTIONS: (15 MARKS)

(A)	Compare and Contrast between Switches, Routers and Layer 3 switches.	**(5)**
(B)	What are Data Center Foundation components?	**(5)**
(C)	What are different types of Virtualizations?	**(5)**
(D)	Explain Spanning Tree Protocol.	**(5)**
(E)	What is campus LAN Design? What are the Best Practices for the same?	**(5)**
(F)	Discuss different Strategies for Load Balancing in the Data Center.	**(5)**

Q.3 ATTEMPT ANY THREE QUESTIONS: (15 MARKS)

(A)	Write a short note on different WLAN Standards.	**(5)**
(B)	Write in details WLAN Controller Components.	**(5)**
(C)	Write a Short notes on: 1) Frame Relay 2) Metro Ethernet	**(5)**
(D)	Discuss WAN and Edge Design Methodologies.	**(5)**
(E)	What are the different methodologies for Optimizing Bandwidth Using QoS? Explain.	**(5)**
(F)	Explain various DMZ Connectivity Implementation Techniques?	**(5)**

Q.4 ATTEMPT ANY THREE QUESTIONS: (15 MARKS)

(A) Explain IPV4 header structure. **(5)**

(B) Write short notes on: **(5)**
1) BOOTP
2) DHCP

(C) Explain IPv6 Unicast Address, Anycast Address and Multicast Address. **(5)**

(D) Discuss IPv6 Address-Assignment Strategies. **(5)**

(E) What are the techniques for IPv4-to-IPv6 Transition Mechanisms? **(5)**

(F) What are routing Protocol Metrics and Loop Prevention techniques? **(5)**

Q.5 ATTEMPT ANY THREE QUESTIONS: (15 MARKS)

(A) What are different Network Security Threats? **(5)**

(B) Explain Security Risks. **(5)**

(C) Write short note on Risk Assessment. **(5)**

(D) Write short notes on: **(5)**
1) RMON
2) NetFlow

(E) What are the techniques for Detecting and Mitigation Threats? **(5)**

(F) Compare and Contrast IPS and IDS. **(5)**