TED (15) - 6131		Reg. No
(REVISION — 2015)		Signature
	OMA EXAMINATION IN ENGINEER ANAGEMENT/COMMERCIAL PRACTIC	and the second s
	COMPUTER NETWORKS	
		[Time: 3 hours
·	(Maximum marks: 100)	
	PART — A (Maximum marks: 10)	
•		Marks
I Ans	wer all questions in one or two sentences. Each q	uestion carries 2 marks.
1.	Define computer network.	
2.	List the functions of proxy server.	
3.	Name any two closed loop congestion control med	hanisms.
4.	Define piggybacking.	
5.	List any two application layer protocols.	
		$(5 \times 2 = 10)$
	PART — B	
	(Maximum marks : 30)	,
II Ans	swer any five of the following questions. Each quest	ion carries 6 marks.
1.	Briefly explain any two networking topologies.	
2.	Differentiate between multicast and broadcast addr	esses.
3.	Briefly explain any two network layer services.	

· Explain subnetting in classless addressing.

Briefly explain the Stop-and-Wait protocol.

Explain the connection termination in TCP.

Explain the Hyper Text Transfer Protocol.

(5×6 – 30)

4.

5.

6.

7.

PART — C

(Maximum marks: 60)

(Answer one full question from each unit. Each full question carries 15 marks.)

Unit — I

		ONI — I	
III (a)		List and explain the common Standard Ethernet implementations.	9
	(b)	Explain the addressing used in various layers of the TCP/IP protocol suite.	, 6
		OR	÷
IV	(a)	Explain the architecture of IEEE 802.11 Wireless LAN.	9
	(b)	Describe any two different types of membership in Virtual LAN.	6
		Unit — II	
V	(a)	Write down the DHCP message format. Explain each field.	9
	(b)	Explain the classful addressing of IPv4.	6
		Or	- Tag.
VI	(a)	Explain the path - vector routing algorithm.	9
	(b)	Briefly describe the various security issues of IP protocol.	6
	•	Unit — III	
VII	(a)	Explain the encapsulation and decapsulation at the Transport layer.	6
	(b)	Explain the Selective Repeat Protocol.	9
		OR	
VIII	(a)	Compare and contrast TCP and UDP.	6
	(b)	Write down the format of TCP segment.	9
		Unit — IV	
IX	(a)	Explain the File Transfer Protocol.	8
	(b)	Write down the DNS message format.	7
		OR	٠
X	(a)	Explain the architecture of Electronic mail.	8
	(b)	Explain the name - address resolution in DNS.	7