

TED (10) - 4075 (REVISION - 2010)

Reg No	
Signature	

DIPLOMA EXAMINATION IN ENGINEERING/TECHNOLOGY/ MANAGEMENT/COMMERCIAL PRACTICE — OCTOBER, 2018

COMPUTER NETWORKS

-1	Time	-	3	hours
	TALLAC		_	11000

(Maximum marks: 100)

PART -- A

(Maximum marks: 10)

Marks

- 1 Answer all questions in one or two sentences. Each question carries 2 marks.
 - 1. What is a computer network?
 - 2. Define a subnet.
 - 3. What is DNS?
 - 4. What is a bridge?
 - 5. What is piconet?

 $(5 \times 2 = 10)$

PART — B

(Maximum marks: 30)

- II Answer any five of the following questions. Each question carries 6 marks.
 - 1. Explain the different types of Ethernet cabling.
 - 2. What is framing? Explain the bit stuffing method.
 - 3. Explain the header structure of IPv4.
 - 4. What is multicast routing?
 - 5. Explain the need of multiplexing in the transport layer.
 - 6. Differentiate MACA and MACAW.
 - 7. Compare the protocols TCP and UDP.

 $(5 \times 6 = 30)$

[306]



Marks

15

PART — C

(Maximum marks: 60)

	(Answer one full question from each unit. Each full question carries 15 marks.)	
	Unit — I	
III	(a) Explain the ISO-OSI reference model in detail.	8
	(b) Explain about static and dynamic channel allocation.	7
	OR	
IV	(a) Write notes on :	
	(i) Switched Ethernet	
	(ii) Fast Ethernet	8
	(b) Discuss about the collision free protocol in CSMA.	7
	Unit II	
V	Explain the different IP addressing modes.	15
	OR	
VI	(a) Explain the techniques for achieving good quality of service.	8
	(b) Compare virtual circuit with diagram subnets.	7
	Unit — III	
VII	Explain the elements of transport layer protocol.	15
	OR	
VIII	What is an e-mail? Explain the e-mail architecture and services.	15
	Unit IV	
ΙX	Explain in detail the bluetooth protocol.	15
	OR	
X	Write notes on the following:	

(iii) Gateways

(ii) Switches

(i) Router