Reg. No.:					

**Question Paper Code: 54086** 

## B.E. / B.Tech. DEGREE EXAMINATION, NOV 2017

## Fourth Semester

## Information Technology

## 15UIT406 - COMPUTER NETWORKS

		10011 100 001111 0	TEIT (ET () OTHER	
		(Regulation	on 2015)	
D	uration: Three hours			Maximum: 100 Marks
		Answer ALI	Questions	
		PART A - (5 x	1 = 5 Marks)	
1.	Which network topol	logy is considered pass	sive?	
	(a) Cross	(b) Ring	(c) Bus	(d) Star
2.	Which one of the fol	lowing task is not done	e by data link layer?	
	(a) Framing	(b) Error control	(c) Flow control	(d) Channel coding
3.		rk forwards incoming palgorithm is being use		nem on its shortest output
	<ul><li>(a) hot potato rou</li><li>(c) delta routing</li></ul>	uting	<ul><li>(b) flooding</li><li>(d) none of these</li></ul>	
4.	Which one of the following	lowing is a transport la	yer protocol?	
	· /	ol transmission protocorol message protocol covery protocol	01	

- 5. What is the result of adding an IP address to the DNS server search order
  - (a) It restricts browsing to that DNS server

(d) Dynamic host configuration protocol

(b) It overrides the local systems IP address

- (c) It tells the DNS Server where the local system is located
- (d) It tells the local system where the DNS Server is located

PART - B (5 x 3 = 15 Marks)

6.	Create 6 devices are arranged in a mesh topology. How many cables are needed? How
	many ports are needed for each device?

- 7. What are the responsibilities of data link layer?
- 8. Define IP address.
- 9. Compare UDP and TCP.
- 10. Why is an application such as POP needed for electronic messaging?

PART - C (5 x 16 = 80 Marks)

11. (a) Explain Layers in OSI/ model in detail. (16)

Or

- (b) Explain about the transmission modes available for data flow. (16)
- 12. (a) Explain in detail the error detection and error corrections. (16)

Or

- (b) Explain the functioning of wireless LAN in detail. (16)
- 13. (a) What is sub netting? Discuss. Also state which classes of IP address can be sub netted. (16)

Or

- (b) Explain Routing table end Routing module in detail. (16)
- 14. (a) With neat architecture, Explain TCP in detail. (16)

Or

- (b) Explain about congestion control in detail. (16)
- 15. (a) Discuss the features of HTTP and also discuss how HTTP works. (16)

Or

(b) Explain about RSA algorithm in detail. (16)