Reg No.:	Name:

APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY

SIXTH SEMESTER B.TECH DEGREE EXAMINATION, APRIL 2018

		Course Code: CS306		
Course Name: COMPUTER NETWORKS (CS)				
Max. Marks: 100 Duration: 3 Hours				
		PART A Answer all questions, each carries 3 marks.	Marks	
1		How are computer networks classified on the basis of physical size?	(3)	
2		Differentiate between normal and asynchronous balanced modes of operations in	(3)	
		HDLC.		
3		What are the reasons for using Layered Architecture in Computer Networks?	(3)	
		Define the terms protocol and interface.		
4		Draw and explain the frame format for Ethernet.	(3)	
PART B				
Answer any two full questions, each carries 9 marks.				
5	a)	What are the OSI service primitives for connection oriented service?	(4)	
	b)	Explain the phases in a PPP connection with the help of a transition diagram.	(5)	
6	a)	How collision is avoided in CSMA/CA? Describe the different strategies used for	(5)	
		this.		
	b)	List out the key design issues that occur in Computer Networks.	(4)	
7	a)	Describe the ISO/OSI layered architecture with the help of a neat diagram.	(5)	
	b)	Write notes on IEEE 802.5 standard.	(4)	
PART C				
Answer all questions, each carries 3 marks.				
8		What is flooding? Describe any two situations where flooding is advantageous.	(3)	
9		Compare classful and classless addressing, giving examples for both.	(3)	
10		Write short note on RIP.	(3)	
11		List and explain any three closed loop congestion control techniques.	(3)	
PART D				
Answer any two full questions, each carries 9 marks.				
12	a)	Describe the format of IPv4 datagram with the help of a diagram, highlighting	(6)	
		the significance of each field.		

b) List and explain the different types of error reporting messages used by ICMP.

Explain the File Transfer Protocol (FTP) and its features.

b) Draw and explain the datagram format for IPv6.

20 a)

(3)

(5)

(5)