

Reg.No. _____



Karunya UNIVERSITY

(Karunya Institute of Technology & Sciences)
(Declared as Deemed-to-be University under Sec.3 of the UGC Act, 1956)

End Semester Examination – Nov/Dec – 2016

Code : **14CS2066**
Sub. Name : **TCP/IP**

Semester : **2016-17 ODD**
Duration : **3hrs**
Max. marks : **100**

ANSWER ALL QUESTIONS (5 x 20 = 100 Marks)

Q. No.	Sub Div.	Questions	Course Outcome	Marks
1.		Explain the functionalities of various layers in OSI Model.	CO1	(20)
		(OR)		
2.	a.	With neat sketch explain how to connect home computers to internet.	CO1	(10)
	b.	Explain the various wireless access Technologies.	CO3	(10)
3.	a.	With neat sketch explain the IPV6 Header.	CO2	(10)
	b.	Does IPV6 support Fragmentation? Justify your answer.	CO2	(10)
		(OR)		
4.	a.	State any two difference between IPV4 and IPV6?	CO2	(4)
	b.	Change the following IPv4 addresses from binary notation to dotted-decimal notation. i) 10000001 00001011 00001011 11101111 ii) 11000001 10000011 00011011 11111111	CO2	(4)
	c.	An organization is granted the block 201.12.3.0/24. The organization needs four subnetworks, with 100, 50 20 and 10 users. Design a suitable addressing table for each of these networks.	CO3	(12)
5	a.	With neat sketch explain the operation of Address resolution Protocol	CO3	(12)
	b.	Compare and Contrast Static and Dynamic Routing.	CO3	(8)
		(OR)		
6	a.	How do TCP handle out of order packets?	CO2	(5)
	b.	Explain how flow control is enforced in transport layer by TCP.	CO2	(15)
7	a.	What are the various services provided by TCP?	CO2	(10)
	b.	With neat sketch explain the UDP Header Structure.	CO2	(8)
		(OR)		
8	a.	How do a computer get its IP address when connected to the network?	CO3	(8)
	b.	What is the difference between Telnet and SSH?	CO3	(5)
	c.	What is meant by web Cache? Why it is required in the networks?	CO3	(10)
		<u>Compulsory:</u>		
9	a.	A client need to stream video from a server on real time. List the various application layer protocol. Explain the communication sequence for the above application	CO1	(20)

ALL THE BEST