



End Semester Examination – Nov/Dec – 2016

Code : **14CS3066**
Sub. Name : **IP Telephony**

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.	a.	<p>Explain how the User terminal is able to send messages between the different eNodes and establish a session.</p>	(CO1)	(20)
(OR)				
2.	a.	How is migration from fixed line to mobile and VoIP services predicted to continue in the future?	(CO1)	(10)
	b.	Explain the enormous success of peer-to-peer (P2P) voice applications.	(CO1)	(10)
3.	a.	Explain the NGN functional architecture as defined by the European Telecommunications Standard Institute (ETSI).	(CO1)	(20)
(OR)				
4.	a.	Explain in detail about the Session Initiation Protocol and its components	(CO1)	(10)
	b.	How is legacy access and PSTN/ISDN interconnection supported by PES?	(CO2)	(5)
	c.	How is the OSI Reference Model and the SS7 Protocol Stack related?	(CO2)	(5)
5.	a.	Explain the concept of international roaming with the help of the diagram.	(CO2)	(10)
	b.	Pictorially describe the IP Telephony administrative domain.	(CO2)	(10)
(OR)				
6.	a.	Explain the panorama of main VoIP service providers.	(CO2)	(10)
	b.	How does the customer and end user communicate? Explain their relationship as business actors.	(CO2)	(10)
7.	a.	Explain how the service requirements are met for the IP Telephony interconnection.	(CO2)	(20)
(OR)				
8.	a.	What are the factors that should be considered in an interconnect agreement?	(CO3)	(10)

	b.	Explain the working of Interconnection Node (IN).	(CO3)	(10)
	c.	Pictorially represent the general view of common components of service layer of TISPAN NGN.	(CO3)	(5)
		<u>Compulsory:</u>		
9.	a.	Explain with an example the flow of message exchanges to port a number.	(CO3)	(20)

ALL THE BEST