

**E**

Reg. No. :

--	--	--	--	--	--	--	--	--	--	--

**Question Paper Code: 55Q29**

Ph.D. COURSE WORK EXAMINATION, NOV 2018

First Semester

Elective

15PCS529- NEXT GENERATION NETWORKS

(Regulation 2015)

Duration: Three hours

Maximum: 100 Marks

Answer ALL Questions

PART - A (5 x 20 = 100 Marks)

1. (a) List and explain about the Network and implementation issues with NGN. CO1- U (20)

Or

- (b) Discuss about the principles of SIP and Compare with other signalling systems (e.g. SS7). CO1- U (20)

2. (a) Discuss in details about the architectural principles and the key components of IP Multi-Media System (IMS). CO2- Ana (20)

Or

- (b) Is the IMS Service Platform a Solution for Next Generation Network Providers to Be More Than Bit Carriers? Explain. CO2- Ana (20)

3. (a) Discuss pros and cons of various options for MPLS service and how it works in NGN. CO3- Ana (20)

Or

- (b) How the QoS is provided in IP-based networks for Multi Protocol Label Switching (MPLS). CO3- Ana (20)

4. (a) Discuss the issues and challenges in moving towards this next generation network vision from the viewpoint of evolving Multimedia Broadcast Multicast Service (MBMS). CO4- Ana (20)

Or

- (b) How multicast can integrate into MPLS networks for easy migration from existing environment to MPLS VPN environment. CO4- Ana (20)

5. (a) Discuss management challenges and solutions in Next Generation Network. CO-5 U (20)

Or

- (b) Brief short notes on Configuration Management and Accounting Management CO-5 U (20)
-