Student Registration No	
	В

## COURSE CODE: DCAP406 COURSE TITLE: Computer Networks

Date of Exam:- 16 Oct

Time Allowed: 3 hours

Session:- 1:30-4:30

Max. Marks: 80

- 1. This paper contains 10 questions divided in two parts on two pages.
- 2. Part A is compulsory.
- 3. In Part B (Questions 2 to 10), attempt any 6 questions out of 9. Attempt all parts of the questions chosen.
- 4. The marks assigned to each question are shown at the end of each question in square brackets.
- 5. Answer all questions in serial order.

## PART- A

Q1.a) What do you mean by LAN?	[2]	
b) What is the function of Physical Layer?	[2]	
c) What is a protocol?	[2]	
d) Which layer is responsible for the routing?	[2]	
e) Explain the difference between TCP and UDP?	[2]	
f) What do you mean by network Security?	[2]	
g) What do you mean by data communication?	[2]	
h) What is the function of ARP?	[2]	
i) Define QoS (Quality of Service ) in Networks.	[2]	
j) What is the general purpose of Public Switched Telephone Network?	[2]	
PART- B		
Q2. Explain the difference between token bus and Token Ring?	[10]	
Q3. Explain the difference between network security and information security? How two terms are related to each other?	v these [10]	
Q4. Draw the layer diagram of TCP/IP protocol Suite and explain it briefly?	[10]	
Q5. How does DNS perform name resolution and also write different types of name servers?		

Q6. Explain in detail about:	[10]
a) Bridge	
b) Router	
c) Switch	
Q7. Explain the following Random Access Protocols	[10]
a) CSMA	
b) CSMA/CD	
Q8. Explain Selective Repeat ARQ. Justify how Selective Repeat ARQ outperformsGo-and Stop-and-Wait ARQ.	back-N [10]
Q9. Describe the Physical and Transmission Characteristics of the following.	
a) Twisted Pair Cable	
b) Coaxial Cable	[10]
Q10. What is Checksum? With an Example list the steps undertaken by Sender and R for Error Detection?	Receiver [10]