Roll No					
---------	--	--	--	--	--

BCA-14

Data Communication and Computer Networks

Bachelor of Computer Application (BCA–16/BCA–11)

Fifth Semester, Examination, 2017

Time: 3 Hours Max. Marks: 60

Note: This paper is of Sixty (60) marks containing three (03) sections A, B, C. Attempt the questions contained in these sections according to the detailed instructions given therein.

Section-A

(Long Answer Type Questions)

Note: Section 'A' contains four (04) long answer type questions of fifteen (15) marks each. Learners are required to answer *two* (02) questions only.

- 1. What is network Topology? List and explain different network Topologies.
- 2. Explain TCP and UDP protocols.
- 3. What is a computer network? Explain LAN, MAN and WAN with example.
- 4. Explain the concept of message switching and Packet Switching.

P. T. O.

[2] BCA-14

Section-B

(Short Answer Type Questions)

Note: Section 'B' contains eight (08) short answer type questions of five (5) marks each. Learners are required to answer *four* (04) questions only.

- 1. What is NIC card? What are its functions?
- 2. What is the difference between OSI and TCP/IP model?
- 3. What are the disadvantages associated with unguided media? List and explain.
- 4. Define the following terms:
 - (i) Router
 - (ii) Switch
- List components of NIC. Also list different types of NICs.
- 6. List and explain functions of Data Link layer.
- 7. What is Simplex, Half Duplex mode of communication?
- 8. Explain DNS with suitable example.

Section-C

(Objective Type Questions)

Note: Section 'C' contains ten (10) objective type questions of one (1) mark each. All the questions of this section are compulsory.

- 1. In transmission, the channel capacity is shared by both communicating devices at all times.
 - (a) Simplex
 - (b) Half duplex
 - (c) Full duplex
 - (d) Full Simplex

2.		elevision broadcast is an example ofsmission.			
	(a)	Simplex			
	(b)	Half duplex			
	(c)	Full duplex			
	(d)	Full Simplex			
3.	An ı	unauthorized used is a network issue.			
	(a)	Performance			
	(b)	Reliability			
	(c)	Security			
	(d)	All of the above			
4.	is the protocol suite for the current Internet.				
	(a)	TCP/IP			
	(b)	UDP			
	(c)	UNIX			
	(d)	ATM			
5.	The OSI Model consists of layers.				
	(a)	3			
	(b)	5			
	(c)	7			
	(d)	8			
6.	Unio	cast is method.			
	(a)	One to many			
	(b)	Many to many			
	(c)	Many to one			
	(d)	One to one			

A-21 **P. T. O.**

7.		process-to-process deliver of the entire message is responsibility of the layer.			
	(a)	Network			
	(b)	Transport			
	(c)	Application			
	(d)	Physical			
8.	IPv4	is of bits.			
	(a)	8			
	(b)	16			
	(c)	32			
	(d)	64			
9.	IEEI	E 802.11 is standard for			
	(a)	WLAN			
	(b)	WPAN			
	(c)	MAN			
	(d)	None of the above			
10.	Multicast is method.				
	(a)	One to many			
	(b)	Many to many			
	(c)	Many to one			
	(d)	One to one			

BCA-14 20