No. of Printed Pages : 4

Sl. No.

# **C2-R4 : ADVANCED COMPUTER NETWORKS**

**DURATION : 03 Hours** 

#### **MAXIMUM MARKS: 100**

Roll No. :				Answer Sheet No. :			

Name of Candidate : \_\_\_\_\_; Signature of Candidate : \_\_\_\_;

### **INSTRUCTIONS FOR CANDIDATES :**

- Carefully read the instructions given on Question Paper, Answer Sheet.
- Question Paper is in English language. Candidate has to answer in English Language only.
- Question paper contains Seven questions. The Question No. 1 is compulsory. Attempt any FOUR Questions from Question No. 2 to 7.
- Parts of the same question should be answered together and in the same sequence.
- **Questions are** to be answered in the **ANSWER SHEET** only, supplied with the Question Paper.
- Candidate cannot leave the examination hall/ room without signing on the attendance sheet and handing over his/her Answer Sheet to the Invigilator. Failing in doing so, will amount to disqualification of Candidate in this Module/Paper.
- After receiving the instruction to open the booklet and before answering the questions, the candidate should ensure that the Question Booklet is complete in all respects.

## DO NOT OPEN THE QUESTION BOOKLET UNTIL YOU ARE TOLD TO DO SO.

1.	(a)	Examine the efficacy of routing algorithms DSR and AODV.							
	(b)	What is Burke's Theory in Queing theory ? Explain.							
	(c)	What is the difference between Leaky Bucket and Token Bucket Algorithms ?							
	(d)	What is Remote Procedure Call (RPC) ? What are the sequence of events of an RPC ?							
	(e)	What is Asynchronous Transfer Mode (ATM) network ? Briefly explain.							
	(f)	List the merits and demerits of using Distance Vector Routing Protocol.							
	(g)	What are the common properties of end-to-end protocols ? (7x4)							
2.	(a)	What are the Advantages and Disadvantages of Dedicated IP Addresses ?							
	(b)	What are the benefits and limitations of VPN ?							
	(c)	What are the various services provided by TCP to the application layer ? (8+5+5)							
3.	(a)	What is an IPv6 address, and how does it differ from an IPv4 address ?							
	(b)	Briefly explain about each of the layers of ATM and their functionalities.							
	(c)	Discuss about the adaptation layers of ATM. (6+6+6)							
4.	(a)	Explain the various IPv6 Address types and their scopes.							
	(b)	Compare different multicast Routing algorithms. (10+8)							
5.	(a)	What is a TCP timestamp, and why is it used ? Explain with proper example.							
	(b)	What are the basic goals of Random Early Detection (RED) Algorithms ?							
	(c)	What are the advantages and disadvantages of Voice over Internet Protocol (VoIP) ? (7+5+6)							
6.	(a)	Explain the process of sending Multimedia from a streaming server to a media player.							
	(b)	Explain the concept of Carrier Sense Multiple Access with Collision Avoidance (CSMA/CA). (10+8)							
7.	(a)	What is Real Time Streaming Protocol (RTSP) ? How RTSP works ?							
	(b)	What are the ways of delivery for the audio/video from the streaming server to the media player ? (9+9)							

- o 0 o -

## SPACE FOR ROUGH WORK

## SPACE FOR ROUGH WORK