# Department of Higher Education
# University of Computer Studies, Yangon
# Third year (B.C.Sc/ B.C.Tech.)
# Final Examination
# Computer Networking (CST-303)
# September, 2018

**Answer all questions.** **Time allowed :3 hours**

1. Answer the following. (20 marks)

i. User datagram protocol is called connectionless because

A. all UDP packets are treated independently by transport layer

B. it sends data as a stream of related packets

C. it is received in the same order as sent order

ii. Transport layer protocols deals with

A. application to application communication

B. process to process communication

C. node to node communication

iii. A transport layer packet as a---------

A. message

B. datagram

C. segment

iv. The ------- connects to the router's input ports to output ports.

A. switching fabric

B. routing processor

C. packet scheduler

v. How many bits are in the IPv6 address?

A. 32

B.64

C.128

vi. The network layer concerns with-------

A. bits

B. frames

C. packets

vii. In the ------ circuit approach, a preplanned route is established.

A. Virtual circuit

B. Datagram circuit

C. None of above

viii. The time it takes for a transmitter to send out a block of data.

A. Propagation delay

B. Transmission delay

C. Node delay

ix. Service class, RSpec, TSpec in the content of --------

A. Session

B. Flowspec

C. Filterspec

x. The merged ------- messages reach the sending hosts, enabling the set up for first hop.

A. Path

B. Data

C. Resv

2. Answer ***any Four*** of the followings. (20 marks)

(a) Draw the reliable data transfer with bit errors FSM description for rdt 2.1.

(b)What is the network layer provides any explicit assistance for congestion-control.

(c) Explain the dual-stack approach of transitioning from IPv4 to IPv6.

(d) How many ways to classify routing algorithm and explain them?

(e) What is the four generic architectural components in public telecommunication?

(f) What is the several drawbacks of the FIFO queuing discipline?

3(a) Explain the network-assisted ATM ABR congestion control. (10 marks)

(b) What is the sequence number and acknowledgment numbers in the TCP segment header? (10 marks)

4(a) What's Inside a Router? (10 marks)

(b) How to work Internet Control Message Protocol(ICMP)? (10 marks)

5(a) How many switching technique and explain them? (10 marks)

(b) What is the RSVP Goals and Characteristics? (10 marks)

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