

ISLAMIC UNIVERSITY OF TECHNOLOGY (IUT)
ORGANISATION OF ISLAMIC COOPERATION (OIC)
Department of Computer Science and Engineering (CSE)

ONLINE QUIZ #3

DURATION: 25 Minutes

FULL MARKS: 30

CSE 4511: Computer Networks

1. An IP datagram has arrived with the following information in the header (in hexadecimal): 14
45 00 00 54 00 03 00 00 20 06 00 00 7C 4E 03 02 B4 0E 0F 02
 a. Are there any options?
 b. Is the packet fragmented?
 c. What is the size of the data?
 d. Is a checksum used?
 e. How many more routers can the packet travel to?
 f. What is the identification number of the packet?
 g. What is the type of service?

2. Name the mutable header fields of *IPv4*. With necessary diagrams briefly explain the 3+13
fragmentation and reassembly procedure of *IPv4* along with the necessary header fields
involved.