# ISLAMIC UNIVERSITY OF TECHNOLOGY (IUT)
## ORGANISATION OF ISLAMIC COOPERATION (OIC)
## <u>Department of Computer Science and Engineering (CSE)</u>

| **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): 45 00 00 54 00 03 00 00 20 06 00 00 7C 4E 03 02 B4 0E 0F 02 <br>       a. Are there any options? <br>       b. Is the packet fragmented? <br>       c. What is the size of the data? <br>       d. Is a checksum used? <br>       e. How many more routers can the packet travel to? <br>       f. What is the identification number of the packet? <br>       g. What is the type of service? | 14 |
|---|---|---|---|
| | | | |
| 2. | | Name the mutable header fields of *IPv4*. With necessary diagrams briefly explain the fragmentation and reassembly procedure of *IPv4* along with the necessary header fields involved. | 3+13 |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |