Bahria University

Karachi Campus



LAB EXPERIMENT NO.

10

LIST OF TASKS

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| **TASK NO** | **OBJECTIVE** |
| 1 | Answer the following questions below. |
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Submitted On:

**20-12-2023**

(Date: DD/MM/YY)

**Task#1:**

1. **Name the fields in IP header.**

* Differentiated Services Field
* Flags
* Header checksum

1. **What is the IP address of your computer?**

10.10.3.202

1. **Within the IP packet header, what is the value in the upper layer protocol field?**

UDP (17)

1. **How many bytes are in the IP header? How many bytes are in the payload of the IP Computer gram?**

IP header: 20 bytes

Payload of the IP Computer gram: 63-20 = 43 bytes

1. **Explain how you determined the number of payload bytes.**

To determine the number of payload bytes all you need to do is take away the IP header size which in this case is 20 bytes from the total length which in this case is 63 bytes and the remainder is the number of payload bytes.

1. **Has this IP Computer gram been fragmented? Explain how you determined whether the Computer gram has been fragmented.**

The more fragments bit is not set and offset is 0, so the data is not fragmented.

1. **What is the value in the Identification field and the TTL field?**

Identification: 0x70a0 (28832)

TTL: 128

1. **What information in the IP header indicates that the Computer gram been fragmented? What information in the IP header indicates whether this is the first fragment versus a latter fragment?**

The Flags bit for more fragments is set, indicating that the datagram has been fragmented. Since the fragment offset is 0, we know that this is the first fragment.