Hadassah Academic College
Department of Computer Science

Protocols and Computer Networks Exercise 4

1. A computer is attached to an organizational network with the global IPv6 address

   2001:0410:0011:0000:0000:0000:0022:0033

   And the MAC address **AA00BB00CCDD**

   A. Write the short form of the global IPv6 address

   B. The computer switches on and generates a local IP address using stateless auto-configuration. What is the address?

   C. What will be the computers IP address after it interacts with the local router?

   D. Write the address from part C in the long form.

2. A computer with a fixed IPv6 address attaches to a foreign network that supports IPv6.

   a. Explain briefly why the computer cannot use its fixed IP address

   b. Explain briefly how the computer can obtain an IP address for use on the foreign network

   c. Explain briefly how the computer can initiate receipt of data from its home network using mobile IP.