



MULTIMEDIA UNIVERSITY OF KENYA

**ECE 3115- WIRELESS COMMUNICATION TECHNOLOGIES
ASSIGNMENT I**

Answer All Questions

- 1.** With the aid of a block diagram, discuss the development cycle used for the IEEE standards.
- 2.** Name and discuss the key features of IEEE 802.16 standard.
- 3.** List three advantages of IEEE 802.16 standard based on broadband services for Metropolitan Area Networks (MAN) over other broadband standards.
- 4.** Discuss the key steps in the road-map of the IEEE 802.16 standard.
- 5.** The MAC sublayer and the PLCP sublayer coordinate transmission of frames to and from the wireless medium using what?
- 6.** Name the three parts of the ERP-OFDM PPDU.
- 7.** The scrambler and descrambler serve what purpose in wireless LAN transmitters and receivers?
- 8.** An ERP-OFDM Preamble uses how many symbols for training the receiver?
- 9.** When transmitting a DSSS PSDU across the wireless medium using short preambles, what is the lowest supported data rate for the PSDU?
- 10.** A DSSS PLCP header is protected from in-transit bit-flipping attacks by which field?