



Kafrelsheikh University - Faculty of Engineering			
Course	Elective Course (2) Mobile and Wireless networks	Date	10/1/2019
Time	3 Hours	Marks	70
Students	4 th Year Computers and Systems		

This Exam measures ILOs a.13, a.15, a.18, b.18, c.18

Answer all the following questions:

Clarify your answer with the suitable diagrams.

Q.1 Explain the Conventional Amplitude Modulation used in wireless networks including its general Equation, the modulated signal in the time domain and its advantages and disadvantages. (10 Marks)

Q.2 Draw and Explain how the Ring Modulator Works. (10 Marks)

Q.3 Draw and Explain the superheterodyne receiver used in AM radio broadcast. (10 Marks)

Q.4 What are the Basic Security Strategies to protect a Wi-Fi Network? (10 Marks)

Q.5 What are the differences, advantages and disadvantages between Re-active and Pro-active routing protocols in Mobile ad-hoc networks? (10 Marks)

Q.6 Draw the components of a wireless sensor network node. (10 Marks)

Q.7 Explain the Bearer Service of the GSM Mobile System. (10 Marks)

Good Luck and Best Wishes

Dr. Ibrahim Elashry

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