Universiti Malaysia PAHANG
UMP
Engineering • Technology • Creativity

Faculty of Electrical & Electronics Engineering
BEE 3413 Principles of Communication Systems

Name: _____   ID: _____

Section: _____   Date: _____

QUIZ 4

Mapping CO, PO, Domain, KI : CO1, PO1, C4
CO1: Analyze and differentiate various types of modulation and demodulation techniques.
PO2: Ability to acquire in-depth technical competency in specific engineering discipline
C4: Analysis

1100101001

Encode these binary number above using the following line coding schemes:

  (a) Unipolar NRZL
  (b) Polar NRZL
  (c) Polar NRZI
  (d) Polar RZ
  (e) Manchester encoding
  (f) Differential Manchester encoding
  (g) Bipolar Encoding - Alternately Mark Inversion

Bit rate: 50,000 bit/sec
Data elements per signal elements, r : 1
Vp = ± 5 V

Figure 1

[10 Marks]