I. Atmospheric Engine
- atmospheric s____________ (and weather) is a function of t_______________ and p______________
- wind flows from h_____ pressure areas to l____ pressure areas
- in absence of earth’s rotation, wind would be p______________ to constant pressure lines (i___________)
- earth’s rotation creates C____________ effect

II. Atmospheric Stability
- tendency of atmosphere to r__________ or e__________ vertical air movement is termed s______________
- there are three categories of stability depending on the l______ r______ – rate of temperature change as a function of elevation
  a. neutral – d____ a____________ l____ l________ r_______
  b. unstable – s______________ lapse rate
  c. stable – s______________ lapse rate
    i. isothermal – no change in t______________ with e______________
    ii. i___________ – temperature increases with elevation

III. Terrain Effects
A. H__________ L__________ E__________
- mass of material that a___________ and e__________ heat at a greater rate than surrounding area
  - stability over heat islands is l__________
    - good for g___________ l__________ sources
    - bad for t______ s__________

B. Land/Sea Breeze
- land c_______ more rapidly at night than sea – l__________ breeze
- land h____________ faster during day – s______ b__________

C. Valleys
- valleys at an a________ a____________ to the prevailing wind will direct a portion of wind into the valley
  - valleys oriented in the n_______-s__________ direction are more susceptible to inversions than east-west direction
  - during daytime sun heats valley floor – v__________ breeze
  - during night – h__________ breeze
  - early day – i______________ possible