

## Unit 3

### Lecture 3.5 Quiz

1) At relatively high degrees of rod volume fractions and low temperatures, one would expect which of the following phases to form?

- a. One phase isotropic
- b. Two phase isotropic
- c. Two phase nematic
- d. One phase nematic
- e. One phase disordered

2) The melting temperature of PCBM is approximately:

- a. 100 °C
- b. 150 °C
- c. 200 °C
- d. 220 °C
- e. 280 °C

3) The eutectic point of a blend of P3HT and PCBM occurs at

- a. Loadings that are not optimal for solar cell performance.
- b. Temperatures that are above the melting temperatures of the pure components.
- c. A P3HT weight fraction of ~0.65.
- d. Room temperature.
- e. Low loadings of P3HT.