Consider a university database for the scheduling of classrooms for final exams. This database could be modeled as the single entity set exam, with attributes course-name, section-number, room-number, and time. Alternatively, one or more additional entity sets could be defined, along with relationship sets to replace some of the attributes of the exam entity set, as

* + Course with attributes name, department, and c-number
  + Section with attributes s-number and enrollment, and dependent as a weak entity set on course
  + Room with attributes r-number, capacity, and building

**Questions :**(a) Show an E-R diagram illustrating the use of all three additional entity sets listed

(b) Explain what application characteristics would influence a decision to include or not to include each of the additional entity sets.