

**Fire Behavior and Ecology**  
**Exam II**  
**April 6, 1981**

- (20) 1. Discuss the role of fire in the California Chaparral including fire frequency, sprouting species, obligate seeders, diversity, decadence, susceptibility to wildfires, and succession.

2. How does fire frequency in Arizona Chaparral differ from that of California Chaparral? What are the two most prevalent species?

(6) 3. What are the principal values of Gambel Oak communities? Will fire enhance these values?

(1) 4. What is the frequency of fire in ponderosa pine communities throughout its zone?

- .20) 5. How do we envision the historical role of fire in ponderosa pine communities of the Southwest to keep the trees healthy and productive in what we would normally consider a climax community?

(10) 6. How do you think it is best to teach someone to conduct prescribed burns?

(10) 7. Why do we stress the importance of weather when conducting prescribed burns?

(6) 8. Why do we stress conducting burns on a management unit basis?

(14) 9. How would you tell someone to burn 1,000 acres of chained redberry juniper such as we have burned at Guthrie? Include all the steps from beginning to end and a diagram of a fire plan.