

- | | <u>POINTS</u> |
|---|----------------------|
| 1. What slope aspect receives the most direct sunlight? | <u>20</u> |
| 2. What changes in fire behavior can be expected as a fire burns into a thermal belt? | <u>20</u> |
| 3. List two (2) ways in which steeper slopes can worsen fire behavior. | <u>20</u> |
| a. _____ | |
| b. _____ | |
| 4. List two (2) "indirect effects" that topography has on fire behavior. | <u>20</u> |
| a. _____ | |
| b. _____ | |
| 5. Define a "slope-reversal" and describe how a slope reversal can contribute to threatening fire behavior. | <u>20</u> |

POINTS POSSIBLE: 100

POINTS DEDUCTED:

FINAL SCORE:

POINTS

1. What slope aspect receives the most direct sunlight? 20

SOUTH OR SOUTHWEST

2. What changes in fire behavior can be expected as a fire burns into a thermal belt? 20

IT WILL INCREASE IN INTENSITY

3. List two (2) ways in which steeper slopes can worsen fire behavior. 20

a. **FIRE MOVES FASTER AS THE SLOPE BECOMES STEEPER**

b. **THE LIKELIHOOD OF ROLLING BURNING MATERIAL INCREASES AS THE SLOPE BECOMES STEEPER**

OR **WHERE STEEPER SLOPES FACE EACH OTHER ACROSS A DRAINAGE THEY ARE CLOSER TO EACH OTHER THAN FLATTER SLOPES, HENCE THE OPPORTUNITY FOR PREHEATING AND EVEN AREA IGNITION IS GREATER.**

OR **WHERE MINOR DRAINAGES LIE ON STEEPER SLOPES THEY ARE POTENTIAL "CHIMNEYS" IN WHICH FIRE CAN MOVE RAPIDLY AND INTENSELY.**

4. List two (2) "indirect effects" that topography has on fire behavior. 20

a. **INFLUENCES WIND PATTERN**

b. **INFLUENCES FUEL MOISTURE AND TEMPERATURE**

OR **INFLUENCES TYPE OF VEGETATION**

POINTS

5. Define a "slope-reversal" and describe how a slope reversal can affect fire behavior.

20

WHEN FIRE REACHES A RIDGE-TOP AND BEGINS TO BURN DOWNSLOPE ON THE OTHER SIDE IT COMMONLY SUFFERS A SIGNIFICANT REDUCTION IN RATE OF SPREAD AND INTENSITY. THAT CAN PRESENT A GOOD CONTROL OPPORTUNITY.

WHEN FIRE CROSSES A DRAINAGE AND BEGINS TO RUN UP THE NEXT SLOPE IT OFTEN INCREASES GREATLY IN SPREAD RATE AND INTENSITY. THAT CAN PRESENT A THREAT TO FIREFIGHTERS OR CONTROL LINES.

POINTS POSSIBLE: 100

POINTS DEDUCTED:

FINAL SCORE: