Roasting Foundation

1. Two of the most common types of of heat transfer in a drum roaster are	
and	
2 and are released from the beans during seco crack.	nd
3. Roasting to a lighter roast color is a way to maximize	
4. In darker roasts, can double.	
5. A "bready" character in a coffee can be caused by roasting at	
a temperature.	
6. List three things necessary for a fire and if removed, would extinguish one?	
a	
b	
C	
7. Evaluate this statement: Commodity coffee can be flash-roasted in under 60 second or false?	ls. True
8 can cause temperature increases to acceler	ate near
first and second crack.	
9. Using the roast profile on page 5, calculate the development time of the batch.	

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10. What are three types of burners most commonly used in drum roasters?

a. ______ b. ______ c. _____

11. To be considered specialty grade, green coffee must have a moisture between

_____ and _____.

12. Fill in the missing information for the equation to calculate the Temperature Midway Point:

_____ + Temp1st = TMP

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On Figure A below, label points A through F using the following terms:

Color change from green to yellow Second rack First crack Charge End of roasting Turning point



Figure A

Know the basic parts of a typical drum roaster, as illustrated in Figure B below:



Figure B

Keywords

1st and 2nd crack. Moisture in green beans Air (drum environment) temperature probe Airflow, chimney Bean temperature probe Chaff. Chaff collector Charge temperature Charge weight End weight Cooling phase / cooling time Cooling tray Dark roast high bitterness low in acidity. Opposite relationship for light roasts Drum Fluid Bed Convection Conduction Endothermic Exothermic Maillard Caramelization Drying phase End temperature Fire extinguisher (water vs. CO2) Fire in the chimney Fire in the drum Light, medium and dark roast Quenching Heat reduction points Roast degree / roast color Roast volume increase Roast profile recording (time x temp) Roasting curve Roasting cycle Sample spoon / trier Silver skin = chaff Specialty vs commodity roasting Stirring device/agitator/cooling bin **Temperature Midway Point** Turning point Ventilation