

Firearms, Tool Marks, and Other Impressions Review

	1.	What is rifling on a gun and what is its purpose? spiral patterns of lands ? grooms in the barrel of the gun, to better aim the bullet
		What are lands and grooves? raised parts lowered parts
	3.	What is caliber? How is it measured (both US and other countries)? diameter of the cartridge.
	4.	What are strictions? How are they produced?
	5.	What are pistols? Handguns - 1. semiautomatics z. revoluis
1	6.	Describe the differences between revolvers and semiautomatics?
		What are long guns? a time wo in a magazize, shoots I bullet 1. rifles nands to recocking at a time 2. shotguns nands file
	٥.	How does a shotgun differ from a rifle? thre shot or cfire bullets
	9.	
	10.	Describe all the parts of a bullet and casing. 9unpowder
	11.	What parts of a firearm leave impressions on a cartridge case that constitute individual characteristics of that weapon? firing pin, extractor, breech fact.
	12.	What is GSR? What factor does distance have on GSR on a victim? (sgun shot residue stre forther away the gun is, the more spread out the GSR is
	13.	How is a suspect tested for GSR? suabbed b/w index finger & thumb, tested for unburned nitrates from GSR. & primer residue (Ba, Sb, Pb)
		distance above horizion = (tan x) × distance from gun to victim
	15.	What are types of tool marks and how are they made? cutting marks indentions abrasions (scrotches)
	16.	How does the criminalist record a tool mark for comparison when removal of the original tool mark is impractical? Make a cast $\omega/dental$ plaster
	17.	Why must the crime-scene investigator never attempt to fit a suspect tool into a tool mark?
		What is the first step that must be taken before moving or handling an impression at a crime scene? Pictures $w/nlers$
	19.	Name two procedures used to preserve impressions that cannot be submitted to the
	/	laboratory.
	20.	What are the types of impressions? Patent impression - visible, 2-D in dirtidus or blood, etc. 1 atent - hidden, brought cut by uvlight, Powder or chemical developers
		Plastics - 3 P, in soft materials, 10st easily

center of front tire to center of distance from center of back tire left to the center of 21. Distinguish between the following measurements on a vehicle: track width, wheelbase, and 22. What are the characteristics of shoes that can be used to match a shoeprint? Surface notion size, width, tread pattern, wearing patterns hales are to see a size.

23. She prints can be close and size, width, tread pattern, wearing patterns, holes or hody directions the prints can be class evidence or individual evidence. What makes a sheep rints is a specific tops evidence? Be specific. What makes a shoe print individual evidence? g tread pattern wimarks brand 24. What are some things that can be determined about a person based on a set of shoe prints? weight, how active they are, walking habits, running or walking, limp 25. Explain how you would make a casting of a shoeprint left in the dirt. spray w/nairspray, fill dental plaster, let dry produced by 26. What are the three categories of tire marks and how are they made?
- skid-locks tires you - drift, skidding sci SCND - damanged/owrloaded - skid - locks tires distance braked 27. Why can dental impressions be useful forensically if a bite mark is found? tires during/right afterimpact show one a of individual judence, can be compared to 1 person can calculate impact 28 Distinguish between the three types of tool marks and how they are made. 29. Since tools are made on an assembly line do two identical screwdrivers leave the same marks? NO. 30. What is combustion and what three factors are necessary for it to occur? another substance, producing heat; light 2 oxygen 3. heat 31. Compare and contrast ignition temperature and flash point. minimum temp @ which a 5 minimum temp. needed for a 32. What is pyrolysis? Where does this happen most often?

decomposition of organic sprain silos
matter by heat hay bales liquid to produce enough vapor to ignite. bay bales > spontaneously combusting 33. What is the primary focus of the fire investigation? tinding the origin of the fire 34. How is arson evidence collected and preserved? 2-3 quarts of ash Edebris @ point of origin collected in unused paint cans 35. What are the differences between high and low explosives? Give examples of each.

C-4, evelocity of detonation velocity of detonation less tho

RDX, dynamic reater than 1000 meters/scood 1000 meters/scood 2 aun DOU velocity of detonation less than & gunpowder ?

insunsitive

to next, shock or friction

RPX(C-4)

(normally burn rather

EX) TUT, PETU,

than explode)

smoke less powder

36. What is the difference between primary and secondary explosives?

easily detonated explored by heat or shock, or friction

37. What is the most commonly used low explosive?

smoke less

powder

shows

speed

found in

blasting

caps

& primers