## BIOLOGY ASSIGNMENT ABIOGENESIS versus BIOGENESIS

1.	Match the various	experiments with	n the following biologists.	
8	Aristotle	a.	boiled the meat broth to kill microbes but the broth was murky despite being in loosely sealed flasks	
-	van Helmont	b.	mud gave rise to frogs and fish	
	Redi	C.	boiled the meat broth and sealed the flasks proving microbes did not arise from the broth	
	Needham	d.	mice were created from wheat and a dirty shirt	
0	Spallanzani	e.	used a swan-neck flask to boil the meat broth	
3=-	Pasteur	f.	proved the maggot found rotting fish were result of flies depositing their eggs	
2.	The theory of biog	he theory of biogenesis means that:		
_	<ul><li>a. living things co</li><li>b. living things an</li></ul>	living things come from non-living things living things are capable of regenerating themselves.		
		living things come from previous living things. living things are spontaneously generated.		
_ 3.	What did the critical water		sing from Redi and Spallanzani's experiments? microbes d. nutrients	
_ 4.	What was the indea. the open jars	ependent variable b. the closed ja	in Redi's experiment? ars c. 4 types of meat d. treatment of the jars (open vs closed	
_ 5.	-	What was the dependent variable in Redi's second experiment?  . the growth of maggots		
	b. the lack of gro	the lack of growth of maggots the presence of the active ingredient		
	•	of flies from laying		
6.	What type of flask a. sealed	did Pasteur use i b. narrow openir	in his experiment to disprove abiogensis? ng c. a swan neck d. a J-flask	
_ 7.	Who is given credit a. Redi	for establishing tl b. Spallanzani	he theory of biogenesis? c. Needham d. Pasteur	