What is the species of the five unknown samples ?	
O Salmonella enterica	
Escherichia coli	
O Vibrio cholera	
○ Campylobacter jejuni	
Which samples have the same ST-type ? (please chose all options that have the same ST-type	9)
✓ 1	
_ 4	
☑ 2	
☑ 3	
	 Salmonella enterica Escherichia coli Vibrio cholera Campylobacter jejuni Which samples have the same ST-type ? (please chose all options that have the same ST-type ✓ 1 ✓ 4 ✓ 2

3.	Which unknown samples contain plasmid ? (please chose one or more correct options)
	✓ 1
	_ 2
	✓ 3
	4
	✓ 5
4.	Which samples DO NOT contain genes conferred to beta-lactam resistance ? (please chose one or more correct options)
	✓ 4
	3
	☑ 2
	1

5.	Why do you need a reference genome for construct SNP phylogenetic tree?
	O To do reference based assembly
	O To include in phylogenetic tree
	To identify SNPs
	O To identify genes
6.	Which unknown sample is the most distantly related strain?
	O 1
	O 2
	O 3
	4
	45

7.	From the answer of question 6. Why is the strain the most distantly related ? (please chose one or more correct options)
	It has the most number of SNPs differences
	In SNP phylogenetic tree, It's clustered far away from other samples
	☐ It is different species
	It has different ST type
3.	Which unknown samples are outbreak strains (clonal strains)? (please chose one or more correct options)
	_ 2
	✓ 3
	_ 4
	☑ 5

9.	From the question 8. Why did you make decision that those strains are outbreak or clonal ? (please chose one or more correct options)
	☐ They have different ST-type
	They have the same ST-type
	✓ They have the same resistance profile
	They are clustered closely in phylogenetic tree and have much lower number of SNP differences compared to other non-outbreak strains.
10.	One of the strains has the same ST-type as the three outbreak strains. Why is that strain not part of the outbreak ? (please chose one or more correct options)
	✓ It doesn't have any plasmids
	✓ It has relatively high number of SNP differences compared to outbreak strains
	✓ It has different resistance profile
	☐ It is different species