١.		y is whole genome sequencing combined with bioinformatic tools seen as revolutionizing diagnostics and veillance?
	0	Whole genome sequencing combined with bioinformatic tools can only be used by state of the art high profile laboratories
	\bigcirc	Whole genome sequencing combined with bioinformatic tools can only be used for bacteria
	\bigcirc	Whole genome sequencing combined with bioinformatic tools is only for research
	0	Whole genome sequencing combined with bioinformatic tools can be used for all organisms
2.	What is one of the advances with whole genome sequencing combined with bioinformatic tools?	
	0	Overall, the time spent from sample to results (species ID, typing, virulence and relatedness tests) increases and it is less expensive than conventional methodologies combined
	•	Overall, the time spent from sample to results (species ID, typing, virulence and relatedness tests) decreases and it is less expensive than conventional methodologies combined
	0	Overall, the time spent from sample to results (species ID, typing, virulence and relatedness tests) decreases and it is more expensive than conventional methodologies combined
	0	Overall, the time spent from sample to results (species ID, typing, virulence and relatedness tests) increases and it is more expensive than conventional methodologies combined

3.	What was the aim for Center for Genomic Epidemiology (CGE) project
	To develop a bioinformatics tool to detect only the bacterial species, virulence properties, antimicrobial resistance genes and relatedness to other strains
	To develop a commercial available bioinformatics tool for diagnostic
	To provide a foundation for web based solutions that are easy to use
	O To develop a bioinformatics tool for research
4.	Does the Center for Genomic Epidemiology (CGE) have a tool that combines several tools?
	No, this was not part of the strategy, all tools are single stand-alone tools
	Yes, It is called the batch upload tool
	Yes, but it is only used by DTU
	O No, but it is in a development phase

5.	Why the urgent need to use whole genome sequencing?
	To avoid that developing counties embrace the technology
	O To agree on using only one brand of sequencing platform, globally
	To initiate and improve standardization and quality control
	To enhance the resolution beyond the genome level
6.	Which sequencing technology produces long read sequences ?
	O Illumina MiSeq
	O Illumina HiSeq
	O Ion Torrent
	Oxford Nanopore

7.	In library preparation for NGS, If you sequence more than one isolate/sample. What part in adapter helps you to distinguish the isolates/samples?
	O Sequencing primer
	Amplification primer
	Barcode
	O None of above
8.	What is the format used to store raw read sequences (NGS data)?
	○ FASTA
	○ GENBANK
	FASTQ
	All of above

9.	What is the purpose for 'Trimming' of raw reads?
	To get rid of low quality sequences or reads
	O To assemble reads to contigs
	O To transform from FASTQ to FASTA format
	All of above
10	. What is the purpose of mapping reads to a reference genome to identify variance?
	O To identify core gene
	O To assemble reads to contigs
	O To search for genes
	To identify SNPs

11. What is the parameter for checking genome quality?	
○ N50	
Number of contigs	
O Total size of genomes	
All of above	
12. N50 is often used as a quality measure for assemblies. What does it describe?	
50% of the total assembly size	
The total assembly size	
The size of the longest contig	
The median of the contig sizes in the assembly	

13. What does it mean "to do de-novo assembly"?		
The assembly is created using only the raw read data.		
The assembly is done using Velvet.		
The assembly is partly based upon a reference sequence.		
The assembly is based upon a reference sequence.		
14. When using the CGE Assembler with Illumina data, what assembler will do the assembly?		
O Mira		
Newbler		
A combination of Velvet and Newbler		
Velvet		

15.	Whe	en using the CGE Assembler with Ion Torrent sequencing data, what assembler will do the assembly?
	\bigcirc	Velvet
	()	Newbler
	\bigcirc	A combination of Velvet and Newbler
	\bigcirc	Mira