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1. The process in which all living cells, spores and viruses are completely destroyed from an object is called \_\_\_\_\_.

- a. Disinfection
- b. Pasteurization
- c. **Sterilization**
- d. Antisepsis

2. UHT sterilization involves high temperature exposure of objects for \_\_\_\_\_.

- a. **1 – 3 seconds**
- b. 1 – 3 minutes
- c. 1 – 3 hours
- d. 10 – 30 hours

3. \_\_\_\_\_ is an antiseptic.

- a. Chlorine
- b. Copper Sulphate
- c. Ozone
- d. **70% ethanol**

5. The best form of DNA to transform *E. coli* is \_\_\_\_\_.

- a. Linear
- b. **Covalently closed**
- c. Nicked circles
- d. Nicked linear

7. \_\_\_\_\_ RNA polymerase has a single subunit.

- a. *E. coli*
- b. *Bacillus subtilis*
- c. **T7**
- d.  $\lambda$  phage

8. Same DNA sequence may code for more than one protein by \_\_\_\_\_

- a. Gene splitting
- b. RNA splitting
- c. **Alternative splicing of RNA**
- d. None

9. Bacterial cells can be stained with \_\_\_\_\_ to reveal the presence of lipid inclusions.

- a. Saffranin
- b. Methylene blue

- c. Trypan blue
- d. **Sudan dyes**

10. Glucose that is taken in by a bacterial cell is made to stay within the cell by \_\_\_\_\_.

- a. Attaching to membranes
- b. Immediate utilization
- c. **Phosphorylation**
- d. Conversion to Fructose