

Question 1: Broth conditioning techniques are mostly used in association with sedimentation and _____ for the separation of cells from liquid media.

- Centrifugation
- Vertexing
- freeze thawing
- None of the given

Question 2: The microorganisms associated with solid-substrate fermentations are those that tolerate relatively low water activity down to A_w values of around _____.

- 0.6
- 0.7
- 0.8
- 0.9

Question 3: Fermentation factors affecting DSP include _____.

- properties of microorganisms
- flocculation characteristics
- size and cell wall rigidity
- All of the given

Question 4: As compared to yeasts _____ centrifuges are required for the separation of smaller microorganisms, such as bacteria.

- Small scale
- Slow speed
- Higher speed
- Advance

Question 5: Levels of dissolved O_2 and CO_2 are determined using _____.

- Testers
- Electrodes
- Tools
- Pipes

Question 6: _____, consisting of a glass or plastic column, into which the solid substrate is loosely packed, surrounded by a jacket that provides a means of temperature control.

- Column bioreactors
- Bed bioreactors
- Fluidized bioreactors
- Koji bioreactors