

BIOPROCESS TECHNOLOGY

Multiple Choice Questions & Answers

1. Organisms that can tolerate very low pH conditions are called _____.
- A. acidophiles.
 - B. thermophiles.
 - C. hyperthermophiles.
 - D. alkaliphiles.

ANSWER: A

2. Organisms that prefer temperatures above 50°C are called _____.
- A. thermophiles.
 - B. acidophiles.
 - C. alkaliphiles.
 - D. all the above.

ANSWER: A

3. Which of the following belongs to continuous culture?
- A. Turbidostat.
 - B. Chemostat.
 - C. both A and B.
 - D. All the above.

ANSWER: D

4. A culture medium which contains known specific kinds and amounts of chemicals is a _____ medium.
- A. liquid.
 - B. solid.
 - C. selective
 - D. defined synthetic.

ANSWER: D

5. Which phase of bacterial growth represent the time of adaptation?
- A. Lag.
 - B. Log.
 - C. Stationary.
 - D. Death.

ANSWER: A

6. The primary metabolites are synthesized in _____ phase.
- A. log.
 - B. tropho.
 - C. deceleration.
 - D. death.

ANSWER: B

7. In _____ phase, the secondary metabolites are synthesized.
- A. exponential.
 - B. acceleration.
 - C. idio.
 - D. death.

ANSWER: C

8. Autogenous regulatory control is exerted at the level of _____.
- A. replication.
 - B. transcription.
 - C. translation.
 - D. reverse transcription.

ANSWER: C

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9. Which among the following detergent is used for cell disruption?
- A. Sodium lauryl sulfate.
 - B. SDS.
 - C. Triton X-100.
 - D. All the above.

ANSWER: D

10. The sticky ends generated by restriction enzymes allow ____.
- A. selection for plasmids lacking antibiotic resistance.
 - B. easy identification of plasmids which carry an insert.
 - C. replication of transfer RNA within the bacterial cell.
 - D. pieces of DNA from different sources to hybridize and ligate each other.

ANSWER: D

11. Which among the following represent aerobic process?
- A. Trickling filters.
 - B. Rotating disc contactors.
 - C. Rotating drums.
 - D. All the above.

ANSWER: D

12. Which of the following mutations would be easiest to revert?
- A. An insertion of 10base pairs.
 - B. A deletion of more than 10 base pairs.
 - C. A base pair substitution.
 - D. Insertion of a transposon.

ANSWER: C