

Quiz – ER

Part A: True/False Questions

1. Endoplasmic Reticulum is present in prokaryotic cells.
2. ER exists in three forms.
3. ER forms an extensive network in cytoplasm.
4. No ribosomes are found on the membrane of smooth ER.
5. Rough ER and smooth ER are separate organelles.
6. The space between the lumens of rough and smooth ER are continuous.
7. Rough ER is not involved in the process of protein folding.
8. Both rough and smooth ER form an endomembrane system to support the cell.
9. P450 protein detoxifies hydrophobic drugs by hydroxylation.
10. Rough ER is the formation site of steroid and cholesterol.

Part B: Multiple Choice Questions

1. What does ER stand for?
 - A. Endoplasmic Reticulum
 - B. Exoplasmic Reticulum
 - C. Extracellular r-TNA
 - D. None of the above
2. What covers the outer membrane of rough ER?
 - A. Bound ribosomes
 - B. Mitochondrion
 - C. Lysosome
 - D. None of the above
3. What is the difference between rough ER and smooth ER?
 - A. Size
 - B. Presence of ribosomes on the outer membrane
 - C. pH value
 - D. All of the above
4. How are materials transported between rough ER and smooth ER?
 - A. By vesicles
 - B. Materials are transported freely between rough and smooth ER
 - C. By exocytosis
 - D. By endocytosis
5. Which of the following is the major initial site for protein modification?
 - A. Nucleus
 - B. Rough ER
 - C. Smooth ER
 - D. None of the above

6. Where is misfolded polypeptides degraded?
 - A. Cell membrane
 - B. Smooth ER
 - C. Rough ER
 - D. Cell wall

7. What is smooth ER called in muscle cells?
 - A. Sarcoplasmic reticulum
 - B. Sodium regulator
 - C. Salt regulator
 - D. None of the above

8. Which of the following is a major role of smooth ER?
 - A. Regulates body temperature
 - B. Regulates blood glucose level
 - C. Regulates salinity in cells
 - D. Regulates blood pressure

9. What is the function of P450 protein?
 - A. Detoxify hydrophobic drugs
 - B. Detoxify alcohol
 - C. Detoxify hydrophilic drugs
 - D. All of the above

10. Which of the following is not a major function of smooth ER?
 - A. Primary source of phospholipid in plasma membrane
 - B. Regulates blood glucose level
 - C. Detoxify hydrophobic drugs
 - D. None of the above