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Cell Membrane Quiz PDF

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Explain the process of receptor-mediated endocytosis and its significance in cellular function.

Which molecule helps maintain the fluidity of the cell membrane?

- Carbohydrates
- ◯ Cholesterol
- Nucleic acids
- Proteins

How does the cell membrane contribute to maintaining homeostasis within a cell?

Which of the following is a function of membrane proteins?

- Energy storage
- Genetic information storage
- Signal transduction

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○ Photosynthesis

Describe how the fluid mosaic model represents the structure and function of the cell membrane.

What process involves the engulfment of large particles by the cell membrane?

- ◯ Exocytosis
- ⊖ Osmosis
- Endocytosis
- ◯ Diffusion

What factors affect membrane fluidity? (Select all that apply)

- Temperature
- □ Fatty acid composition
- DNA sequence
- Cholesterol content

Which components are found in the cell membrane? (Select all that apply)

- Phospholipids
- Nucleic acids
- Proteins
- Carbohydrates

Describe the role of cholesterol in the cell membrane and how it affects membrane fluidity.

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Which processes involve the cell membrane? (Select all that apply)

- Endocytosis
- Transcription
- Exocytosis
- Translation

What is the role of glycoproteins in the cell membrane?

- Energy production
- Cell recognition
- O DNA replication
- Protein synthesis

Which type of junction allows direct communication between adjacent cells?

- tight junction
- Gap junction
- ⊖ Desmosome
- Adherens junction

What are characteristics of the fluid mosaic model? (Select all that apply)

- Static structure
- Dynamic nature
- Lateral movement of lipids
- Rigid and immobile

Which part of the phospholipid bilayer is hydrophobic?

- O Phosphate head
- Fatty acid tails
- Carbohydrate chains



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○ Cholesterol molecules

Discuss the importance of membrane proteins in cellular communication and provide an example.

What is the primary structural component of the cell membrane?

- Proteins
- Carbohydrates
- Phospholipids
- Cholesterol

What type of protein spans the entire cell membrane?

- O Peripheral protein
- Integral protein
- Glycoprotein
- Lipoprotein

Explain how the structure of the phospholipid bilayer contributes to its function as a selective barrier.

Which of the following are functions of the cell membrane? (Select all that apply)

- Selective permeability
- DNA replication



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Structural support

Photosynthesis

Which diseases are associated with membrane transport defects? (Select all that apply)

Cystic fibrosis

Diabetes

Sickle cell anemia

U Hypercholesterolemia

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