

Subject code / subject : 1841 / Anatomy and Physiology relevant to Radiology**Year:** First Year**Topic: Structure and function of human cell****Reasoning Puzzle - Organelle Functions and Locations**

Four cellular components (mitochondria, ribosomes, nucleus, cytoplasm) are linked to specific functions (energy production, protein synthesis, genetic storage, fluid matrix) and locations in four cell types (muscle cell, secretory cell, neuron, epithelial cell). Use the clues to match each cell type to its primary component and function.

Task: Create a grid to determine each cell type's primary component and function.

Clues:

1. The muscle cell's primary component is not ribosomes and its function is not genetic storage.
2. The secretory cell's function is protein synthesis.
3. The neuron's component is in the cytoplasm.
4. The epithelial cell's function is energy production.

Rubrics	Marks Alloted (out of 10 marks)
Accuracy	4
Logical reasoning / Applying	3
Conceptual understanding	2
Presentation	1
TOTAL MARKS	10 marks

SNS COLLEGE OF ALLIED HEALTH SCIENCE, COIMBATORE

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B.SC., RADIOGRAPHY AND IMAGING TECHNOLOGY

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