

SNS COLLEGE OF ALLIED HEALTH SCIENCES COIMBATORE -35

(Affiliated to the Tamil Nadu Dr M.G.R Medical University, Chennai)

B. Sc. CARDIOPULMONARY PERFUSION CARE TECHNOLOGY

1402 – PATHOLOGY I YEAR

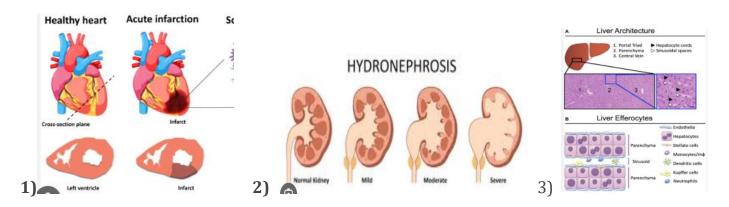
LOGIC GRID - PUZZLE

SCENARIO: THE CELLULAR CRISIS CONUNDRUM

Three different cells in three separate patients are experiencing an injury, and a pathologist must identify the **cause** (Etiology) and the resulting **morphological change** (Pathologic Feature) for each one based on the underlying cellular process.

MATCH THE CELL INJURY SCENARIO TO THE PRIMARY ETIOLOGY AND THE RESULTING PATHOLOGIC FEATURE.

Cell Injury Scenario	Etiology	Pathologic Feature
Cell A: A myocardial cell has suffered prolonged Ischemia , leading to severe ATP depletion and irreversible damage.	?	?
Cell B: A kidney tubule cell is exposed to Toxins that directly interfere with protein synthesis and cause the cell to swell due to failure of the Na+/K+ pump.	?	?
Cell C: A hepatocyte is targeted by a T-cell mediated immune response that triggers a Programmed Cell Death pathway.	?	?



EVALUATION AND JUSTIFICATION (RUBRICS):

Criterion	Marks (out of 10)
Accuracy (Correctly identifying all 6 matches)	4
Logical Reasoning / Applying (Connecting cause, process, and feature)	3
Conceptual Understanding (Explaining why the features occur)	2
Presentation (Clarity and structure of the final answer)	1
Total Marks	10 Marks