ELECTRICITY – QUESTION TABLE

(As per TNMGRU / RRB / MRB)

Q.No	Question	Description	Marks	D.T Level	Bloom's Taxonomy
1	Define electric current and explain its types.	Tests understanding of basic electrical concepts.	15	Define	Understand
2	Explain direct current and its physiological effects on tissues.	Assesses clinical application of DC current.	15	Empathise	Analyze
3	Describe alternating current and explain different AC waveforms with diagrams.	Evaluates conceptual clarity of AC and waveforms.	15	Define	Understand
4	Explain Ohm's Law and its clinical significance in electrotherapy.	Tests analytical understanding and application.	15	Analyze	Analyze
5	Describe series and parallel circuits with advantages and disadvantages.	Assesses application of circuit principles.	15	Prototype	Apply
6	Explain resistance and factors affecting resistance in human tissues.	Tests relationship between resistance and current flow.	10	Analyze	Analyze
7	Describe capacitors (condensers): construction, working, and uses.	Evaluates understanding of charge storage.	10	Analyze	Analyze
8	Explain rheostats and their role in controlling current intensity.	Tests application of safety and control measures.	10	Ideate	Apply
9	Differentiate between DC and AC currents.	Evaluates comparison skills.	10	Define	Analyze
10	Explain the importance of waveform parameters in patient comfort.	Assesses evaluation of waveform characteristics.	10	Evaluate	Evaluate
11	Define Ohm's Law.	Tests recall of fundamental law.	2	Define	Remember
12	What is resistance?	Assesses basic conceptual recall.	2	Define	Remember
13	Define capacitance.	Tests definition-level knowledge.	2	Define	Remember
14	What is a rheostat?	Assesses recall of electrical component.	2	Define	Remember
15	Define waveform.	Tests understanding of AC terminology.	2	Define	Remember
16	State the unit of electrical resistance.	Tests factual knowledge.	2	Empathise	Remember
17	What is meant by current	Assesses basic clinical	2	Define	Remember

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	density?	electrical concept.			
18	List any two effects of direct current.	Tests recall of DC effects.	2	Empathise	Remember
19	State any two advantages of AC over DC.	Assesses comparative understanding.	2	Define	Remember
20	Mention one clinical use of a capacitor in electrotherapy equipment.	Tests applied recall.	2	Ideate	Apply