

SNS COLLEGE OF PHYSIOTHERAPY
(Affiliated by the Tamil Nadu Dr. M. G. R. Medical University, Chennai.)
Saravanampatti Post, Coimbatore – 641 035, T.N



Serial Number	Type of Question	Question	Mapping to (University - Year)	Bloom's Taxonomy
1	15 Marks	Explain the production of ultrasound in therapeutic devices and detail the techniques of application, including machine testing and the three methods: direct contact, water bath, and water bag, with their advantages and disadvantages.	TNMGRMU - 2018	Understand
2	15 Marks	Discuss the principles behind the production of ultrasound and evaluate the suitability of different application techniques (direct contact, water bath, water bag) for various clinical scenarios, including pre-application machine testing.	Manipal - 2020	Evaluate
3	15 Marks	Analyze the process of ultrasound production and the step-by-step technique for applying ultrasound therapy, emphasizing testing the machine and comparing the direct contact, water bath, and water bag methods.	AIIMS - 2019	Analyze
4	15 Marks	Describe in detail how ultrasound is produced in physiotherapy equipment and outline the complete technique of application, including machine testing and the procedures for direct contact, water bath, and water bag methods.	JIPMER - 2021	Understand
5	15 Marks	Create a comprehensive protocol for ultrasound therapy application, incorporating the production mechanism, machine testing, and selection criteria for direct contact, water bath, or water bag methods based on patient conditions.	TNMGRMU - 2022	Create
6	15 Marks	Apply the knowledge of ultrasound production to troubleshoot common issues in therapy machines and explain the application techniques, focusing on testing and the three methods.	Manipal - 2017	Apply
7	15 Marks	Critically evaluate the efficiency and safety of ultrasound production methods and the various application techniques, including detailed testing procedures and method comparisons.	AIIMS - 2023	Evaluate
8	15 Marks	Elaborate on the production of therapeutic ultrasound and the techniques involved in its application, with special emphasis on machine	JIPMER - 2016	Understand

Serial Number	Type of Question	Question	Mapping to (University - Year)	Bloom's Taxonomy
		testing and the practical steps for direct contact, water bath, and water bag methods.		
9	15 Marks	Analyze potential risks in ultrasound production and application techniques, proposing improvements in machine testing and method selection among direct contact, water bath, and water bag.	TNMGRMU - 2015	Analyze
10	15 Marks	Design a training module for physiotherapists on ultrasound therapy, covering production, testing the machine, and demonstrating the three application methods with clinical examples.	Manipal - 2019	Create
11	5 Marks	Briefly explain the production of ultrasound in therapeutic contexts.	AIIMS - 2020	Understand
12	5 Marks	Describe the direct contact method for ultrasound application and its advantages.	JIPMER - 2018	Understand
13	5 Marks	Outline the steps for testing an ultrasound machine before application.	TNMGRMU - 2021	Remember
14	5 Marks	Compare the water bath and water bag methods in ultrasound therapy.	Manipal - 2022	Analyze
15	5 Marks	Apply the water bag method to a scenario involving irregular body surfaces.	AIIMS - 2017	Apply
16	5 Marks	Evaluate the appropriateness of the direct contact method for sensitive skin areas.	JIPMER - 2019	Evaluate
17	5 Marks	List the key components involved in the production of ultrasound waves.	TNMGRMU - 2016	Remember
18	5 Marks	Explain the technique for using the water bath method in ultrasound application.	Manipal - 2023	Understand
19	5 Marks	Analyze the safety considerations in testing ultrasound machines.	AIIMS - 2015	Analyze
20	5 Marks	Create a checklist for preparing a patient for the water bag method of ultrasound therapy.	JIPMER - 2020	Create
21	2 Marks	What is the piezoelectric effect in ultrasound production?	TNMGRMU - 2019	Remember

SNS COLLEGE OF PHYSIOTHERAPY
(Affiliated by the Tamil Nadu Dr. M. G. R. Medical University, Chennai.)
Saravanampatti Post, Coimbatore – 641 035, T.N



Serial Number	Type of Question	Question	Mapping to (University - Year)	Bloom's Taxonomy
22	2 Marks	Name two methods for applying ultrasound therapy.	Manipal - 2018	Remember
23	2 Marks	State the purpose of testing an ultrasound machine.	AIIMS - 2021	Understand
24	2 Marks	What is the direct contact method in ultrasound application?	JIPMER - 2022	Remember
25	2 Marks	Define the water bath method.	TNMGRMU - 2017	Remember
26	2 Marks	When is the water bag method typically used?	Manipal - 2016	Understand
27	2 Marks	List one step in testing an ultrasound machine.	AIIMS - 2018	Remember
28	2 Marks	What crystal is commonly used in ultrasound production?	JIPMER - 2015	Remember
29	2 Marks	Differentiate between direct contact and immersion methods briefly.	TNMGRMU - 2020	Analyze
30	2 Marks	Why test the ultrasound machine before use?	Manipal - 2021	Understand