1. 2-Mark Questions

1. Define therapeutic thermal energy.
2. What is mechanical energy in physiotherapy?
3. Define electrical energy in the context of therapy.
4. What is electromagnetic energy?
5. Define magnetic energy in physiotherapy.
6. Name one physiological effect of thermal energy.
7. What is a pathological effect of electrical energy?
8. Name one danger associated with electromagnetic energy.
9. What is a low-frequency current?
10. Define direct current in physiotherapy.
11. What is a medium-frequency current?
12. Name one medical instrument used in physiotherapy.
13. What is the purpose of circuit testing in physiotherapy equipment?
14. Name one physiological effect of magnetic energy.
15. What is a common danger of thermal energy in therapy?
16. Define galvanic current.
17. What is the frequency range of low-frequency currents?
18. Name one application of medium-frequency currents in physiotherapy.
19. What is a physiological effect of electrical energy?
20. Name one component in a physiotherapy circuit diagram.
21. What is the role of a transformer in physiotherapy equipment?
22. Define faradic current.
23. What is a pathological effect of mechanical energy?
24. Name one safety precaution for electromagnetic energy.
25. What is the purpose of medical instrumentation in physiotherapy?

2. 5-Mark Questions

1. Describe the physiological effects of thermal energy in physiotherapy.
2. Explain the application of mechanical energy in therapeutic settings.
3. Discuss the dangers associated with electrical energy in physiotherapy.
4. Describe the characteristics of electromagnetic energy used in therapy.

5. Explain the physiological effects of magnetic energy in physiotherapy.
6. Discuss the pathological effects of thermal energy in therapeutic applications.
7. Explain the generation of low-frequency currents in physiotherapy equipment.
8. Describe the application of direct currents in physiotherapy treatments.
9. Discuss the role of medium-frequency currents in electrotherapy.
10. Explain the purpose of circuit testing in physiotherapy medical instruments.
11. Describe the generation of electrical energy in physiotherapy devices.
12. Discuss the safety precautions for using electromagnetic energy in therapy.
13. Explain the pathological effects of electrical energy in physiotherapy.
14. Describe the construction of a simple circuit for a physiotherapy device.
15. Discuss the physiological effects of low-frequency currents.
16. Explain the dangers associated with medium-frequency currents.
17. Describe the role of medical instrumentation in ensuring safe physiotherapy treatments.
18. Discuss the application of galvanic currents in physiotherapy.
19. Explain the physiological effects of mechanical energy in therapy.
20. Describe the testing procedures for physiotherapy equipment circuits.

3. 15-Mark Questions

1. Define and describe therapeutic thermal and mechanical energies. Discuss their physiological and pathological effects, and the associated dangers in physiotherapy applications.
2. Explain the characteristics and applications of electrical and electromagnetic energies in physiotherapy. Discuss their physiological effects, pathological effects, and safety precautions.
3. Discuss the role of magnetic energy in physiotherapy. Explain its physiological and pathological effects, and describe the dangers and safety measures in its therapeutic use.
4. Describe the generation and applications of low-frequency currents in physiotherapy. Explain their physiological effects and potential dangers, with examples.
5. Discuss the use of direct currents in physiotherapy, including their generation, physiological effects, pathological effects, and safety considerations.
6. Explain the role of medium-frequency currents in electrotherapy. Describe their generation, applications, physiological effects, and associated risks.

7. Discuss the design and function of medical instrumentation for physiotherapy. Explain the generation of therapeutic currents, including circuit diagrams and testing procedures.
8. Describe the physiological and pathological effects of low-frequency and medium-frequency currents. Discuss their applications and safety measures in physiotherapy.
9. Explain the construction and testing of circuits used in physiotherapy equipment. Discuss the role of circuit diagrams in ensuring safe and effective operation.
10. Discuss the integration of thermal, electrical, and electromagnetic energies in physiotherapy. Explain their combined physiological effects, potential risks, and safety protocols.