Question Paper

Exam Date & Time: 11-Jan-2023 (10:00 AM - 01:00 PM)

MANIPAL ACADEMY OF HIGHER EDUCATION

FIRST SEMESTER B.Sc. RADIOTHERAPY TECHNOLOGY DEGREE EXAMINATION - JANUARY 2023
SUBJECT: RTT1101 - BASIC PHYSICS
(2020 SCHEME)

Marks: 100 **Duration: 180 mins.**

Answer all the questions.

1)	Briefly explain Newton laws of motion with example.	(20)
2)	Elucidate fundamental laws of electricity with principle of semiconductors and wave rectification.	(20)
3)	Electromagnetic waves and its properties.	(10)
4)	Laws of conservation of linear momentum.	(10)
5A)	Write a short note on Systems of unit.	(5)
5B)	Mention the Methods of reducing friction.	(5)
5C)	Explain the Errors in measurements.	(5)
5D)	Explain the concept of Mutual induction and Self-induction	(5)
5E)	Briefly explain Transformer energy loss.	(5)
5F)	Write a short note on P-N junction diode.	(5)
6A)	Define Coulomb's law of electricity.	(2)
6B)	Define Radioactivity.	(2)
6C)	Define Friction.	(2)
6D)	Mention ANY THREE Dimensionless quantities.	(2)
6E)	Define Thermionic emission.	(2)

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