

GUJARAT TECHNOLOGICAL UNIVERSITY

BE- SEMESTER- VII EXAMINATION – SUMMER 2026

Subject Code:3170313

Date:29-05-2026

Subject Name:Regulatory Standards for Medical Devices

Time:02:30 PM TO 05:00 PM

Total Marks:70

Instructions:

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.
4. Simple and non-programmable scientific calculators are allowed.

		MARKS
Q.1	(a) What is medical device? Explain types of medical devices including combination devices.	03
	(b) Write in detail market trends for medical devices.	04
	(c) Explain in detail life cycle of medical devices with necessary diagram.	07
Q.2	(a) Draw and explain regulatory framework and organization of USFDA.	03
	(b) Explain categorization of medical devices according to ISO 10993.	04
	(c) Explain in detail about development of regulation and standards for medical devices.	07
OR		
	(c) Explain regulatory controls on medical devices in US.	07
Q.3	(a) Explain about Risk Management ISO 14971 for medical devices.	03
	(b) State classification of medical devices in EU.	04
	(c) Explain in detail Quality Systems Regulations (21 CFR Part 820) and Agency Interactions in US.	07
OR		
Q.3	(a) Explain about quality management system ISO 13485 for medical devices.	03
	(b) Explain about Marketing Submissions, Advertising, Labelling and Promotion for medical devices in US.	04
	(c) How to get CE Mark certification? Explain about declaration of conformity.	07
Q.4	(a) Describe Regulatory framework or organizations medical device regulation in India.	03
	(b) Explain about Manufacturing-Related Regulation of medical devices in India.	04

(c) Write a note on Import and export of medical devices in India. **07**

OR

Q.4 (a) Write a note on Product Registration or Conformity Assessment Route and Time Required for medical devices in india. **03**

(b) Explain about Clinical Trial-Related Regulation of medical devices in India. **04**

(c) Explain in detail about Quality System Regulation for Combined Device–Drug Product in India. **07**

Q.5 (a) How inspection of Medical Devices conducted in India? **03**

(b) State medical device classification in India. **04**

(c) Explain in detail functions undertaken by DCGI and CDSCO. **07**

OR

Q.5 (a) What is Role of Related Agencies/Departments in Medical Device Regulations in India? **03**

(b) Explain about Standards of Quality Assurance & Testing for medical device in India. **04**

(c) Describe about Medical Device Regulation Acts & Rules with Upcoming Changes in India. **07**
