

BE - SEMESTER-VIII (NEW) EXAMINATION – WINTER 2018				
Subject Code: 2180307 Date: 26/11/2018			18	
	Subject Name: Regulatory Standards for Medical Devices			
	Time: 02:30 PM TO 05:00 PMTotal Marks: 70Instructions:1. Attempt all questions.			
		Make suitable assumptions wherever necessary.		
		Figures to the right indicate full marks.		
			MARKS	
Q.1	(a)	How are devices determined to belong to the higher risk group?	03	
L	(b)	Give definition of medical device according to US FDA and ISO 13485.	04	
	(c)	Give the categorization of medical devices according to ISO 10993.	07	
Q.2	(a)	What are some of the devices that are provided in combination with drugs?	03	
-	(b)	What are the driving forces behind the development of the medical device?	04	
	(c)	Explain Life cycle of medical devices from research and development until regulatory approval.	07	
		OR		
	(c)	Give the classification based on Singapore medical device norms.	07	
Q.3	(a)	How can a medical device improve the quality of life?	03	
	(b)	Explain functions of DGCI and central government for medical device regulation.	04	
	(c)	Explain organization of CDSCO.	07	
		OR		
Q.3	6 (a)	Which Indian organization recently prices of coronary stents? Why?	03	
	(b)	Whether Registration and import license is required for import of non-	04	
		notified medical device in India? Justify the answer.	.	
0.4	(c)	Write a short note on medical device regulatory in India.	07	
Q.4	(a)	Explain the safety aspect of cyber-security during the designing of Medical Devices.	03	
	(b)	Draw regulatory process chart for Class I EU medical devices.	04	
	(c)	Explain the main eight principles of Quality Management Systems for	07	
		Medical Devices (ISO 13485:2003) with the help of diagram.		
		OR		
Q.4	(a)	Explain the role of Competent Authority members in EU.	03	
	(b)	Define the following terms 1. Labeling 2. Post-Marketing	04	
	(c)	Explain the process of China Compulsory Certification Mark in detail.	07	
Q.5	(a)	Define the following terms with examples.	03	
		1) Surface Contacting Devices 2) External Communicating Devices		
	(b)	Enlist the functions undertaken by the FDA and state government for	04	
		Medical Device regulation in India. Define CE Marking? Outline the steps to achieve the CE marking for	07	
	(c)	medical device in EU.	07	
		OR		
Q.5	(a)	Is there a single entity that controls all the different regulatory authorities in	03	
~	(u)	the different countries? Justify the answer.	00	
	(b)	Illustrate the difference between Manufacturing-Related Regulation and	04	
	、	Clinical Trial-Related Regulation		
	(c)	Describe the regulatory process of Class II & Class III US-FDA Medical	07	
		devices with the help of flowchart.		