Seat No.:	Enrolment No.

## **GUJARAT TECHNOLOGICAL UNIVERSITY**

BE - SEMESTER-VI (NEW) - EXAMINATION - SUMMER 2016

Subject Code:2163901			Date:06/05/2016	
T	ime: struct	ct Name: Coating Technology  10:30 AM to 01:00 PM  Total Mark  ions:  1. Attempt all questions.  2. Make suitable assumptions wherever necessary.  3. Figures to the right indicate full marks.	:ks: 70	
Q.1	(a) (b)	Explain diamond like carbon (DLC) process. Explain antifriction coating with suitable example.	07 07	
Q.2	(a) (b)	Explain the radiation-cured coatings.  How can we achieve the corrosion resistance surface?  OR	07 07	
	<b>(b)</b>	Explain laser cladding.	07	
Q.3	(a) (b)	Write short note on wetting.  Give the different name of metallic coating and explain any one technique.  OR	07 07	
Q.3	(a) (b)	Explain the surface engineering for coating technology.  Explain surface tension and contact angle.	07 07	
Q.4	(a) (b)	Explain the galvanizing. Explain the conductive coating.	07 07	
Q.4	(a) (b)	OR Explain the ion-beam implantation. Explain in detail Electrophoretic Deposition (EPD).	07 07	
Q.5	(a) (b)	Explain the process of zinc metallic coating and Teflon non-metallic coating. Explain the sol gel coating.	07 07	
Q.5	(a) (b)	OR Explain laser alloying. Explain the electro-beam hardening.	07 07	

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