GUJARAT TECHNOLOGICAL UNIVERSITY BE - SEMESTER- VI New. EXAMINATION – Summer 2016

Subject Code: 2163906 Subject Name: Nanomagnetism and Nanofluids			Date:19/05/2016
Subject Ivanie. Ivalibility and Ivalibility Total Marks: 7 Time: 10.30 am to 01.00 pm Total Marks: 7 Instructions: 1. Attempt all questions. 2. Make suitable assumptions wherever necessary. 3. Figures to the right indicate full marks.			
Q.1	(a) (b)	Write a short note on types of Magnetic materials. Describe nano magnetic materials in detail.	07 07
Q.2	(a) (b)	Explain temperature effect on magnetic materials Describe B-H curve of nano magnets. OR	07 07
	(b)	Write a short note on properties of nano magnets.	07
Q.3	(a) (b)	Describe nano fluid in detail. Explain properties on nano fluids.	07 07
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Q.3	(a) (b)	Write a note on ferrofluid. Explain magnetization of nano fluid.	07 07
Q.4	(a) (b)	Describe sol- gel technique to prepare nano magnet Explain step –I preparation technique for nano fluid. OR	07 07
Q.4	(a) (b)	Explain Solid state reaction for nano magnet. Write a note on step – 2 preparation technique.	07 07
Q.5	(a) (b)	Explain different stability mechanism in nano fluid. Write note on stability evaluation method for nano fluid. OR	07 07
Q.5	(a) (b)	Write recent application of nano fluid and nano magnet. Write advance application of nano fluid and nano magnet.	07 07
