GUJARAT TECHNOLOGICAL UNIVERSITY

		BE - SEMESTER-VII (NEW) - EXAMINATION - SUMMER 2017	
Subject Code:2171713 Date:09/05/202			17
Subject Name: BUILDING AUTOMATIONTotal Marks: 70Time:02.30 PM to 05.00 PMTotal Marks: 70Instructions:1. Attempt all questions.2. Make suitable assumptions wherever necessary.3. Figures to the right indicate full marks.			70
Q.1	(a) (b)	Draw Block Diagram of Building Automation and explain in detail. Explain in detail about VAV &CAV and give difference between them.	07 07
Q.2	(a) (b)	Explain functioning of HVAC system and explain its architecture with all components Explain typical Air Handling Unit with basic operation. OR	07 07
	(b)	Explain HVAC sequence of operation	07
Q.3	(a) (b)	Explain working principle and application of different type of Smoke detectors State the different criteria to determine layout of the fire detectors OR	07 07
Q.3	(a) (b)	Explain IBMS project cycle. Explain in detail Advantages & Applications of BMS	07 07
Q.4	(a) (b)	Design consideration of EPBX system and its components in BMS. Write a note on integration of EPBX system with IBMS. OR	07 07
Q.4	(a) (b)	Explain concept of Green Building (LEED) & give its Examples. Explain Lighting control for Building Efficiency improvement.	07 07
Q.5	(a) (b)	Explain in detail NVR and DVR. Draw and explain typical access control door wiring OR	07 07
Q.5	(a)	Explain about different type of camera and their use in CCTV based surveillance system	07
	(b)	Write short note on: Energy Savings concept & methods,	07
