Seat No.:	Enrolment No.
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GUJARAT TECHNOLOGICAL UNIVERSITY BE - SEMESTER- IV(NEW) EXAMINATION - SUMMER 2015

Subj	ect C	Gode:2140305 Date:30/05/20	15
•	2:10: ctions 1 2	fame:Analog Circuits-II 30am-1.00pm Total Marks: Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.	: 70
Q.1	(a) (b)	Explain switch mode power supply with diagram. Draw and explain instrumentation amplifier.	07 07
Q.2	(a) (b)	List and explain different type of noises. Define and explain capacitive and inductive crosstalk. OR	07 07
	(b)	Explain RMS versus P-P Noise.	07
Q.3	(a) (b)	Explain significance of noise colors. Explain over voltage and electrostatic discharge protection techniques. OR	07 07
Q.3	(a) (b)	Explain noise corner frequency. Explain different FM generation methods.	07 07
Q.4	(a) (b)	What is active filter? Explain all pass filter in detail with circuit diagram. Design 2nd order low pass butterworth filter having cutoff frequency 1KHz. Assume C=0.0047 μ F and R1=27K Ω .	07 07
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Q.4	(a) (b)	Explain notch filter in detail with circuit diagram. Design all pass filter having operating frequency 1KHz and phase angle 90 degree. Assume C=0.01 μ F.	07 07
Q.5	(a) (b)	Explain amplitude modulation along with expressions. Explain the construction and working of DSO in detail. OR	07 07
Q.5	(a) (b)	Explain pulse code modulation in detail. Draw the block diagram of function generator and explain its function.	07 07
