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MID SEMESTER EXAMINATION (SUMMER SEMESTER ECE)

COURSE CODE: 13B1WEC731

MAX. MARKS: 50

COURSE NAME: CMOS ANALOG CIRCUIT DESIGN

MAX. TIME: 2 HRS.

Note: All questions are compulsory. Carrying of mobile phone during examination will be treated as case of unfair means. Use of calculator is permitted. All questions carry equal marks.

Q1: Design a low pass filter at a cutoff frequency of 1kHz with a passband gain of 2.

Q2: Design a wide band-pass filter with $f_L = 200$ Hz, $f_H = 1$ kHz and a passband gain = 4.

Q3: Design a phase shift oscillator so that f_0 =200Hz.

Q4: With the help of a suitable diagram explain triangular wave generator.

Q5: Explain the working of Schmitt Trigger using the suitable diagram.
