

Dept.: CSE (16th Batch, Section: A) CT-01 Total Marks:15 Time: 20 minutes

- a.** Draw the summing circuit using an op-amp hence derive the o/p equation. 05
- b.** Design an op-amp circuit to perform the equation $V_o = 3V_1 - 4V_2 - 3 \frac{dV_3}{dt}$. 05
- c.** Take a triangular pulse waveform of amplitude +1 V with time duration 0 to 1s to 2s. Now determine the o/p for an differentiator circuit using op-amp for this pulse as a input (Let $R=R$ ohm and $C=1/R$ ~~sec~~) 05