**Assignment# 4**

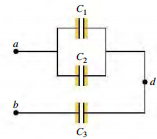
**APPLIED PHYSICS**

**Due Date: 28th November, 2022 before 4:30pm Sections: 1F**

Rimsha Bashir Awan

*Note: Plagiarism is NOT allowed. Copied assignment will get NEGATIVE MARKS for both source and destination*

**Q1**: In **following figure**, *C*1 = 6.00 µF, *C*2 = 3.00 µF, and *C*3 = 5.00 µF. The capacitor network is connected to an applied potential *Vab*. After the charges on the capacitors have reached their final values, the charge on *C*2 is 30.0 µC. (a) What are the charges on capacitors *C*1 and *C*3? (b) What is the applied voltage *Vab*?



Q2: For the capacitor network shown in **following figure**, the potential difference across *ab* is 48 V. Find (a) the total charge stored in this network; (b) the charge on each capacitor; (c) the potential differences across each capacitor.

