

**SENSORS AND TRANSDUCERS 15EE662 (Open Elective)**

Module3 Question Bank

1. What are the advantages of electrical signal conditioning?
2. Explain the necessity of Signal conditioning. Briefly explain the processes adopted in signal conditioning.
3. Explain briefly: (i) CMRR (ii) Amplification (iii) Attenuation
4. Explain the application of Op-amp as (i) Inverter (ii) Adder (iii) Subtractor
5. A multistage amplifier employs five stages each of which has a power gain of 30. (i) What is the total gain of the amplifier in dB? (ii) If a negative feedback of 10 dB is employed, find the resultant gain. [Ans: 73.85 db, 63.85 db]
6. A three-stage amplifier has a first stage voltage gain of 100, second stage voltage gain of 200 and third stage voltage gain of 400. Find the total voltage gain in db. [Ans:138 db]
7. A certain amplifier has voltage gain of 15 db. If the input signal voltage is 0.8V, what is the output voltage? [Ans:4.5 V]