

OPAMP:-

- ① State characteristics of an ideal OPAMP.
- ② Draw block diagram of the different stages of an OPAMP and explain their significance.
- ③ Explain operation of a dual input balanced output differential amplifier.
- ④ What is the need for the label, Shifter's stage?
- ⑤ Find expression of voltage gain as
 - a) Inverting b) Non-inverting
 - c) Inverting adder d) Non-inverting adder
 - e) Integrator f) Differentiator
 - g) Log amplifier h) filter

⑥ Explain with Block diagram how multiplication and division of two signals can be achieved using OPAMP.

⑦ what is meant by the term virtual short and virtual ground with an OPAMP circuit.

⑧ Give one electrical property which distinguishes a virtual ground from a real ground.

⑨ Sketch and explain the output patterns that are obtained by applying a square pulse to an integrator / Differentiator.