H. W for Class- 12A Date- 16/5/2020

Physics

- 1- Capacitor is a device used to_____
- a) store electrical energy
- b) vary the resistance
- c) store magnetic energy
- d) dissipate energy
- 2-. Why does capacitor block dc signal at steady state?
- a) due to high frequency of dc signal
- b) due to zero frequency of dc signal
- c) capacitor doesnot pass any current at steady state
- d) due to zero frequency of dc signal
- 3- Capacitor stores which type of energy?
- a) kinetic energy
- b) vibrational energy
- c) potential energy
- d) heat energy
- 4- The effective capacitance of a capacitor is reduced when capacitors are connected in
- a -series
- b parallel
- c -series-parallel combination
- d -none of the above
- 5- Capacitance of a parallel plate air capacitor depends on
- a-Thickness of conducting plates
- b-Charge on the conducting plates
- c- Area of the conducting plates
- d-Distance of separation between the conducting plates

Maths

- (1) Solve questions number 14,15,16 exercise 3.2
- (2) Solve example number 21 on page number 85
- (3) Prove theorem number 1 & 2 on page number 86.
- (4) find the derivative of sinx from first principle
- (5) Find the value of x if 1/8! + 1/9! = x/10!