

MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIC माधव प्रौद्योगिकी एवं विज्ञान संस्थान, ग्वालियर (म.प्र.),

A GOVT. AIDED UGC AUTONOMOUS & NAAC ACCREDITED INSTITUTE, AFFILIATED TO R.G.P.V

Assignment of Engineering Physics (Code - 3000001)

- Q.1 Explain in detail about
- (a) Density of energy states. (b) Energy band formation.
- (c) Direct and indirect band gap. (d) Effective mass.
- Q.2 what is Fermi level? Discuss about mobility and carrier concentration in intrinsic semiconductor?
- Q.3 Explain in detail about
- (a) Photovoltaic cell. (b) Injection Laser diode (ILD).
- (c) PN junction diode and its properties. (d) Light emitting diode (LED)
- Q.4 Describe about laser action in semiconductors?
- Q.5 Explain Radiative and non-radiative recombination mechanism in semiconductors?

Note: This assignment should be submit individually after 15/05/2023 in hand written format with neat and clean diagram. After remark, I will return it back to you.