

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)
BSc DEGREE EXAMINATION MAY 2018
(Sixth Semester)

Branch – ELECTRONICS

CORE ELECTIVE – II AUTOMOTIVE ELECTRONICS

Time : Three Hours

Maximum : 75 Marks

SECTION-A (20 Marks)

Answer ALL questions

ALL questions carry EQUAL marks (10 x 2 = 20)

- 1 What is the use of alkaline batteries?
- 2 What is mean by charging system?
- 3 Write any two types of spark plug.
- 4 Expand CDI and TIS.
- 5 What is the use of sensors?
- 6 Define solenoids.
- 7 Write any two advantages of throttle body fuel injection.
- 8 Define engine mapping.
- 9 What is head light?
- 10 What is meant by horn?

SECTION - B (25 Marks)

Answer ALL Questions

ALL Questions Carry EQUAL Marks (5 x 5 = 25)

- 11 a Give an account on battery rating.
OR
- b Write a note on gel battery.
- 12 a Describe the functions of magneto coil ignition system.
OR
- b Write a short note on electronic ignition system.
- 13 a Give an account on sensor for speed.
OR
- b Enumerate the functions of manifold pressure.
- 14 a Write the concept of an electronic engine control system.
OR
- b Describe the gasoline direct injection.
- 15 a Explain the LED lighting system.
OR
- b Describe about the connectors and selection.

SECTION - C (30 Marks)

Answer any THREE Questions

ALL Questions Carry EQUAL Marks (3 x 10 = 30)

- 16 Explain briefly about the characteristics of battery charging.
- 17 Describe briefly about the transistor ignition system.
- 18 Enumerate the functions of coolant temperature.
- 19 Briefly explain about the on-board diagnostics.
- 20 Explain the following : (i) Cables (ii) Wiper.