

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

Branch - **ELECTRONICS**

CORE ELECTIVE -II AUTOMATIVE ELECTRONICS

Time : Three Hours

Maximum : 75 Marks

SECTION-A (20 Marks)

Answer **ALL** questions

ALL questions carry **EQUAL** marks (10x2 = 20)

- 1 What is use of lead acid batteries?
- 2 Define Starter.
- 3 What is an Ignition system?
- 4 Explain DIS and EIS.
- 5 Define Sensors.
- 6 What is an exhaust oxygen level?
- 7 Expand CRDI.
- 8 What is mean by Module?
- 9 What is an Insulated system?
- 10 Define Connectors.

SECTION - B (25 Marks)

Answer **ALL** Questions

ALL Questions Carry **EQUAL** Marks (5x5 = 25)

- 11 a List out the characteristics of Battery charging.
OR
b Give an account on DC generators.
- 12 a Describe the Distributor less ignition system.
OR
b Explain the Solid state ignition system.
- 13 a Give an account on Sensor for Speed.
OR
b Explain about the Coolant temperature.
- 14 a Describe the Common rail direct injection.
OR
b Describe the functions of Engine Mapping.
- 15 a Write a short note on Wiper system.
OR
b Explain about the Multiplexing system.

SECTION - C 130 Marks)

Answer any **THREE** Questions

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

- 16 Explain briefly about the working of different Starter drive units.
- 17 Describe briefly about the Capacitor discharge ignition system.
- 18 Briefly explain the Air mass flow for engine application.
- 19 Illustrate the operation of Multi Point Fuel injection.
- 20 Explain the following : (i) Horn (ii) De - Multiplexing.