

Exam Date & Time: 30-Sep-2020 (10:00 AM - 01:45 PM)



PSG COLLEGE OF ARTS AND SCIENCE

Note: Writing 3hrs: Checking & Inserting Image : 30mins + Grace Time : 15mins

BSc DEGREE EXAMINATION MAY 2020
(Sixth Semester)

Branch - ELECTRONICS

CORE ELECTIVE - II - AUTOMOTIVE ELECTRONICS [14ELU27B]

Marks: 75

Duration: 225 mins.

SECTION A

Answer all the questions.

- 1) Define Lead Acid. (2)
- 2) What do you mean Gel Battery? (2)
- 3) What is meant by Electronic Ignition system? (2)
- 4) Define solid state Ignition system. (2)
- 5) List out the classification of sensors. (2)
- 6) What do you mean solenoids? (2)
- 7) Write the concept of an Electronic Engine control system. (2)
- 8) What do you know about on-board Diagnostics? (2)
- 9) List out the preventive methods. (2)
- 10) What is meant by Multiplexing? (2)

SECTION B

Answer all the questions.

- 11) Write about Battery Testing & Maintenance. (5)
 - a) [OR] Give the principle & construction of DC generator. (5)
 - b)
- 12) Describe the spark plug types. (5)

- a)
[OR] Describe the process of solid state Ignition system. (5)
b)
- 13) Give an account on sensor for speed & coolant temperature. (5)
- a)
[OR] Describe the process of crankshaft position. (5)
b)
- 14) Explain the operation of electronic fuel injection system. (5)
- a)
[OR] Explain about Engine Mapping. (5)
b)
- 15) Explain about Head light dazzling & preventing methods. (5)
- a)
[OR] Describe the connectors and selection. (5)
b)

SECTION C

Answer 3 out of 5 questions.

- 16) Elucidate the principle, construction and working of Ac generators. (10)
- 17) Discuss about the Electronic Ignition & Transistor Ignition. (10)
- 18) Give the principle & working of stepper motor. (10)
- 19) Discuss the engine control module & power control module. (10)
- 20) Illustrate the working of Demultiplexing. (10)

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