

Seat No: _____

Enrollment No: _____

PARUL UNIVERSITY
FACULTY OF ENGINEERING & TECHNOLOGY
Diploma Engineering, Mid semester Examination

Semester: 3RD

Subject Code: 03612205

Subject Name: Automobile Electrical System

Date: 09/08/2022

Time: (1hr: 30min)

Total Marks: 40

Instructions:

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.
4. English version is considered to be Authentic.

Q.1 Answer any six out of Ten. (2 Marks Each) (12)

1. Why one more negative plate is used in a battery?
2. What is electrolyte?
3. What is the function of separator in battery
4. Define voltage and resistance in an electric circuit
5. Why vent holes are provided in a battery?
6. State Ohm's law
7. Give two examples of conductor
8. Give any two names of semi conductors
9. Give the material used for positive & negative plates of battery
10. Enlist the various components in an electronic ignition system

Q.2 A) Write short note on general colour-coding system (03)

OR

A) Explain wiring Harness (03)

B) Explain series circuit (03)

OR

B) Explain Parallel circuit (03)

C) Give the application and principle of multimeter (04)

OR

C) Explain battery hydrometer test (04)

D) Explain working principle of battery (04)

Q.3 A) Explain battery charging (03)

OR

A) Explain battery discharging (03)

B) Explain maintenance of battery (03)

OR

B) Explain "Battery Rating". (03)

C) Explain slow charging and trickle charging (04)

OR

C) Explain fast charging and trickle charging (04)

D) Explain Battery Components (04)

