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**Time : 2 Hours****AUTO ELECTRICALS****Subject Code**

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**Total No. of Questions : 5****(Printed Pages : 3)****Maximum Marks : 50**

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- INSTRUCTIONS :**
- (i) Answer each questions on fresh page.
  - (ii) Write the main question numbers and sub question numbers clearly.
  - (iii) Figures to the right indicate full marks.
  - (iv) All questions are compulsory.
  - (v) Illustrate your answers with neat labelled diagram wherever necessary.

1. (A) Answer the following questions in *one* sentence only :

- (1) What is the function of seperator in lead acid Battery ? 1
- (2) Mention the two types of Alternator stator winding connections.1
- (3) Define the term 'Rectification of current.' 1
- (4) Which test is conducted on lead acid battery to know the density of battery electrolyte ? 1
- (5) Name the component in the ignition system used to Develop High Voltage. 1
- (6) Mention any *two* specifications of a spark plug. 1

- (B) With a neat labelled diagram explain the 'High Discharge test' of lead acid battery. 4
2. (A) Answer the following questions in brief :
- (1) State the constructional details of a two wheeler magneto, used for battery charging. 2
- (2) Give any *four* precautions to be followed while working on vehicle, fitted with an alternator. 2
- (3) Explain the working of electronic regulator used in charging system of a car. 2
- (B) With a neat labelled diagram explain the growler test conducted on motor armature. 4
3. (A) Suggest any *four* causes and its remedies for the following troubles :
- (1) 'Noisy Alternator'. 2
- (2) 'Starter operates but do not crank the engine'. 2
- (3) 'Weak or no spark in battery ignition system.' 2
- (B) With a neat labelled circuit diagram, explain the working of 'Electronic Magneto Ignition System'. 4
4. (A) Answer the following questions in brief :
- (1) How does a Armature of D.C. Generator functions in charging system vehicle ? 2
- (2) Explain the construction of flexible cable rack type wind shield wiper. 2
- (3) How does the 'power windows' function in an automobile ? 2
- (B) With a neat labelled diagram explain the functioning of 'Balancing coil type of fuel gauge'. 4

5. (A) Answer the following questions in brief :
- (1) How will you test the magneto circuit for proper D.C. out put ? 2
  - (2) Explain the construction and function of current limit relay. 2
  - (3) State any *four* advantages of Electronic Battery ignition system over conventional type. 2
- (B) With a neat labelled diagram explain the procedure to adjust the headlights of a car. 4