



2018 III 17

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Seat No. :

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Time : 2 Hours

AUTO ELECTRICALS
(New Pattern)

Subject Code

V	3	7	2
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Total No. of Questions : 5

(Printed Pages : 2)

Maximum Marks : 50

- INSTRUCTIONS:** 1) Answer **each** question on a **fresh** page.
2) Write questions and sub-questions number **clearly**.
3) Figures to the **right** indicate **full** marks.
4) **All** questions are **compulsory**.
5) Illustrate your answer with **neat** labelled diagrams **wherever** necessary.

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

- 1) What is the use of high rate discharge cell tester in lead acid battery ? [1]
- 2) How will you detect short circuit in battery plates ? [1]
- 3) Why diodes are used in alternator ? [1]
- 4) What is the function of regulator in generator ? [1]
- 5) Which instrument is used to check the timing of engine ? [1]
- 6) What is the purpose of ballast resistance in ignition system ? [1]

B) With neat labelled diagram, explain the procedure of specific gravity test conducted in a lead acid battery. [4]

2. A) Answer the following questions :

- 1) Write the construction of brush assembly in generator. [2]
- 2) How will you conduct the visual inspection of two wheeler magneto ? [2]
- 3) Write any four advantages of alternator over dynamo. [2]

B) How will you carry out the “stall torque test” on cranking motor ? Explain with the help of line diagram. [4]



3. A) Answer the following questions :
- 1) How regulator rectifier unit works in two wheeler charging system ? [2]
 - 2) Explain the working of follow thru drive in self starter. [2]
 - 3) Write the functioning of can type ignition coil. [2]
- B) Draw the neat labelled diagram of spark plug and state any 4 precautions during replacement of spark plug. [4]
4. A) Suggest any four causes and their remedies for the following troubles :
- 1) Magneto not charging the battery. [2]
 - 2) Normal cranking of engine but it does not start because of faulty ignition system. [2]
 - 3) Starter motor pinion do not dis-engages. [2]
- B) Draw the neat labelled diagram of improved sealed beam head lamp unit. Also state its four advantages. [4]
5. A) Answer the following questions :
- 1) How do the central locking function in the car ? [2]
 - 2) How does the windshield washer unit works ? [2]
 - 3) How will you carry out continuity test on rotor of the alternator by using glow lamp ? [2]
- B) Draw the neat labelled wiring diagram of a balancing coil type temperature guage and explain its construction. [4]
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