



2018 VI 13

1430

Seat No. :

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Time : 2 Hours

**AUTO ELECTRICALS**

**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 the main question numbers and sub-questions **clearly**.  
3) Figures to the **right** indicate **full** marks.  
4) **All** questions are **compulsory**.  
5) Illustrate your answers with **neat** labelled diagram **wherever** necessary.

1. A) Answer the following questions in **one** sentence **only**.
- 1) What is the meaning of battery capacity ? [1]
  - 2) Why it is necessary to do cadmium tip test in battery ? [1]
  - 3) What is the function of heat sink used in alternator ? [1]
  - 4) What is the meaning of 'regulation of current' in charging system ? [1]
  - 5) What is the characteristic of hot type spark plug ? [1]
  - 6) Write any one cause for pitting of contact breaker point. [1]
- B) Draw the neat labelled diagram of Magneto. State any four functions of it. [4]
2. A) Answer the following questions.
- 1) Write procedure to charge the battery by using constant voltage charging method. [2]
  - 2) Write the working of coil type voltage regulator used in a generator. [2]
  - 3) List down any four wire colour codes used in electric accessories. [2]
- B) Explain the procedure to test the following parts of alternator.
- a) Rotor winding with Ohm-meter. [2]
  - b) Brushes by visual inspection. [2]



3. A) State any four causes and suggest suitable remedies for the given troubles.
- 1) Sulphation of battery [2]
  - 2) Intermittent output of magneto [2]
  - 3) Knocking of scooter engine. [2]
- B) Write construction and working of battery coil ignition system used in car. [4]
4. A) Answer the following questions.
- 1) Draw the neat labelled diagram to show internal details of condenser. [2]
  - 2) Write working of Tell-tale relay. [2]
  - 3) Draw the neat labelled diagram of over running clutch type drive. [2]
- B) Write procedure to do the following servicing in starter motor armature.
- a) Turning down of commutator. [2]
  - b) Under cutting of mica. [2]
5. A) Answer the following questions.
- 1) Write the construction of wind screen defroster. [2]
  - 2) Write the working of electric horn. [2]
  - 3) Write the construction of wind shield washer unit. [2]
- B) Draw the neat labelled diagram of Headlight circuit and side light circuit used in four wheeler. [4]
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