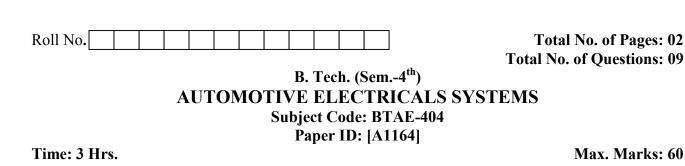
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Q. 1.

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INSTRUCTIONS TO CANDIDATE:

- 1. Section-A is compulsory.
- 2. Section-B Attempt any four questions.
- **3.** Section-C Attempt any two questions.

SECTION-A

(a) What is the electrolyte used in lead acid battery? (b) Why should battery be not overcharged? (c) What is an alternator? (d) What are the requirements of a starting motor? (e) What is the function of an ignition coil? (f) What is the cause of spark plug fouling?

- (g) What is the function of a pulse generator?
- (h) What is dual head light system?
- (i) What is the function of defroster?
- (j) What do you understand by electric vehicle?

SECTION-B

(4x5=20)

(10x2=20)

- Q. 2. Discuss the common faults occurring in the generators of charging system?
- **Q.3.** Discuss the characteristics of series motors.
- **Q. 4.** Discuss the advantages of electric ignition system as compared to conventional ignition system.
- **Q. 5.** Explain the working of speedometer with a sketch.
- **Q. 6.** Discuss the drive arrangements in hybrid vehicle.

SECTION-C

(2x10=20)

- **Q. 7.** Write a note on maintenance free batteries.
- Q. 8. Describe the various components and working of fuel cell.
- Q.9. Discuss the working of a distributer less ignition system in an automobile.

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