

**BACHELOR OF TECHNOLOGY (C.B.C.S.) (2014 COURSE)**  
**B.Tech.Sem - VII MECHANICAL : WINTER- 2022**  
**SUBJECT : AUTOMOBILE ENGINEERING**

Day : Tuesday

Time : 02:30 PM-05:30 PM

Date : 13-12-2022

**W-13459-2022**

Max. Marks : 60

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**N.B.:**

- 1) All questions are **COMPUSLORY**.
  - 2) Figures to the right indicate **FULL** marks.
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**Q.1** Explain the various assemblies of an automobile. **(10)**

**OR**

**Q.1** Explain with neat sketch chassis of automobile. **(10)**

**Q.2** Explain drive system used in automobile. **(10)**

**OR**

**Q.2** Explain all wheel drive with neat sketch. **(10)**

**Q.3** Explain:- Caster, camber, king pin inclination. **(10)**

**OR**

**Q.3** Explain variable ratio steering and power steering of an automobile. **(10)**

**Q.4** Explain different types of maintenance system for automobile. **(10)**

**OR**

**Q.4** Diff. between preventive maintenance and breakdown maintenance. **(10)**

**Q.5** Explain concretion and working of electromagnetic clutch system. **(10)**

**OR**

**Q.5** Explain centrifugal clutch with neat sketch. **(10)**

**Q.6** Explain electrical charging system of an automobile. **(10)**

**OR**

**Q.6** Draw layout of e-vehicle with details. **(10)**

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