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Question Paper Code : 11046

B.E./B.Tech. DEGREE EXAMINATION, MAY/JUNE 2014.

Sixth Semester

Mechanical Engineering

080120035 — AUTOMOBILE ENGINEERING

(Regulation 2008)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. What are the components of a chassis?
2. What is supercharging?
3. What is meant by diesel knock?
4. How are batteries rated?
5. What is the use of the pressure plate in the clutch?
6. What is the function of a differential in an automobile?
7. What is a caster angle?
8. What is the function of the wheel cylinder in break system?
9. What is hybrid vehicle?
10. What is antilock breaking system?

PART B — (5 × 16 = 80 marks)

11. (a) Explain briefly the construction of an automobile with a neat layout.

Or

- (b) Explain briefly the different methods of lubrication system with a neat sketch.

12. (a) With the help of a neat sketch, explain single point and multi point fuel injection system.

Or

- (b) Explain over-running clutch drive mechanism used in cranking and starting an engine.

13. (a) Sketch and explain the operation of a fluid coupling.

Or

- (b) With the help of a neat sketch, explain the construction and operation of a Hotchkiss drive.

14. (a) Explain briefly Ackermann steering mechanism with a neat sketch.

Or

- (b) Explain in detail the function of telescopic type shock absorber with a sketch.

15. (a) Explain in detail about different type of alternative fuel and their properties.

Or

- (b) Explain different type of safety devices used in an automobile.
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