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Total No. of Pages : 02

Total No. of Questions : 18

B.Tech. (ME) (2012 Onwards) (Sem.-5)**AUTOMOBILE ENGINEERING****Subject Code : BTME-505****M.Code : 70606****Time : 3 Hrs.****Max. Marks : 60****INSTRUCTIONS TO CANDIDATES :**

1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
2. SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.
3. SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.

SECTION-A**Answer briefly :**

1. What is the function of a power unit?
2. What is the function of silencers in power unit?
3. What is the use of radiator in the cooling system?
4. What are dependent suspension systems?
5. What is the function of a shock absorber?
6. What is the function of a differential?
7. Define castor action.
8. Draw the neat diagram for a vacuum servo brake.
9. What is a transistorized ignition system?
10. What do you mean by engine tuning?

SECTION-B

11. Explain common Rail Fuel Supply system with diagram.
12. Explain crank case ventilation and dilution.
13. With a neat sectional diagram describe various constructional details of an automobile tyre.
14. What do you mean by perfect steering? What are the requirements to achieve perfect steering?
15. Explain the major tools for maintenance of automobiles.

SECTION-C

16. What are the difference sources of automobile pollutants? Explain the working of exhaust emission control system.
17. Explain with neat diagram the constructional features and working of a centrifugal clutch. What are its advantages over single plate clutch?
18. Discuss in detail various factors affecting tyre life.

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.