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Question Paper Code : 20158

B.E./B.Tech. DEGREE EXAMINATION, NOVEMBER/DECEMBER 2018.

Seventh Semester

Automobile Engineering

AT 6702 — VEHICLE MAINTENANCE

(Regulations 2013)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. Write the necessity of preventive maintenance.
2. List any two special tools with their functions.
3. What are the reasons for overheating of an engine?
4. What do you mean by de-carbonizing?
5. What is the role of clutch play?
6. State the reasons for humming noise from differential unit.
7. When do you suggest bleeding of braking system?
8. Draw the sketch for tyre rotation.
9. Write the suggestions for improving life of the battery.
10. List the reasons for major starting system faults.

PART B — (5 × 13 = 65 marks)

11. (a) Explain the vehicle service procedure with examples.

Or

- (b) Describe the types of maintenance and details of different records used in a maintenance shop.

12. (a) Discuss the reconditioning of engine parts with reasons for reconditioning and reconditioning method.

Or

- (b) Discuss the major cooling system, fuel injection system and lubricating system problems with respect to causes and remedies.

13. (a) Mention in detail about the steps involved in servicing of clutch, gear box and propeller shaft.

Or

- (b) Discuss the major problems occurring in a brake system with respect to causes and remedies.

14. (a) Explain the wheel alignment parameters with respect to need, method of setting the parameters and their effects.

Or

- (b) Discuss about different types of tyre wear with respect to causes and remedies using neat sketches.

15. (a) Describe the different types of battery testing methods using neat sketches.

Or

- (b) Elaborate the method of servicing of charging system parts and regulator.

PART C — (1 × 15 = 15 marks)

16. (a) Explain with clear sketch and steps the procedure for wheel balancing and alignment.

Or

- (b) List atleast eight tools/special tools commonly utilised during engine service along with their applications.