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Total Number of Pages : 01

B.Tech
PAU7J003

7th Semester Regular Examination 2019-20
TROUBLE SHOOTING SERVICING & MAINTENANCE OF AUTOMOBILE

BRANCH : AUTO

Max Marks : 100

Time : 3 Hours

Q.CODE : HR102

Answer Question No.1 (Part-1) which is compulsory, any EIGHT from Part-II and any TWO from Part-III.

The figures in the right hand margin indicate marks.

Part-I

Q1 Only Short Answer Type Questions (Answer All-10) (2 x 10)

- a) What do you mean by maintenance?
- b) What do you mean by single spanner garage?
- c) What do you mean by overhauling of a engine?
- d) What is clutch rattle?
- e) What is backlash and end ply adjustment in a differential?
- f) What do you mean by break breeding?
- g) Why wheel alignment is necessary in vehicle?
- h) Name any six parts of an automobile where lubrication/greasing is required.
- i) Draw typical format of a vehicle moment log book.
- j) Explain briefly the function of thermostat in a cooling system of an automobile.

Part-II

Q2 Only Focused-Short Answer Type Questions- (Answer Any Eight out of Twelve) (6 x 8)

- a) Explain servicing and maintenance procedure of ignition system of a petrol engine.
- b) Explain servicing and maintenance of fuel system of petrol engine.
- c) Explain lubrication system components and its maintenance.
- d) Explain maintenance and procedure of a vehicle body.
- e) Explain step by step procedure to be followed while changing engine oil of a four wheel vehicle.
- f) What is caster? Under which conditions the caster is said to be positive or negative?
- g) List out the various troubles with causes related valves of an automobile engine.
- h) Explain the measure difference between rigid type and independent type suspension system.
- i) Briefly explain the brake adjustment procedure of an automobile.
- j) Explain step by step procedure to be followed while changing engine oil of a four wheel vehicle.
- k) What is anti corrosion and antifreeze additives?
- l) Explain servicing of hydraulic and air brake system.

Part-III

Only Long Answer Type Questions (Answer Any Two out of Four)

- Q3** Draw and explain the location and layout of a garages and service station, and site selection for a service garages. **(16)**
- Q4** Explain different type of maintenance is there in automobile. Which maintenance is better? Justify your answer with reasons. **(16)**
- Q5** Explain different type of painting methods of vehicle body, how do you carry out the polishing of a vehicle body? **(16)**
- Q6** What do you mean by visual inspection of components of an automobile engine? Explain different tools used in engine overhauling. **(16)**