Total No. of pages : 4

2019

Part - II

AUTOMOBILE MAINTENANCE

(Major)

Paper - IV

Full Marks - 80

Time: 3 Hours

The figures in the right-hand margin indicate marks.

Candidates are required to give their answers in their own words as far as practicable.

Answer Question No. 1 and other **six** questions taking one question from each group.

1. Answer any **ten** quesitons:

- 2×10
- (a) What are the important components of drum brake ?
 - (b) What is the function of chasis dynamometer?
 - (c) What is meant by category "L" of a vehicle?
 - (d) What is brake power? Write its expression.
 - (e) Why water cannot be used as a brake fluid?

P.T.O.

(f) Write clearly the specification of tyres. (g) What do you mean by 'Aspect ratio' of a tvre? (h) What is semi-integral frame? (i) What is a de Dion axle? (i) Explain the term "clearance volume" of an auto engine. (k) What is a creeper? (I)What happens when the oil leaks into the break drum and wets the shoe linings? GROUP - A 2. Describe the details the types of tyres to be used in automobiles. Writing clearly the specification of the tyres used. Neat diagram is to be drawn. 5+53. Discuss the classification of breaks from different considerations. Explain the function of a brake shoe adjuster. Describe in details the construction and working of wheel cylinder retchet type adjuster. 3+2+5Write short notes on : 4. 21/2 × 4 Welding and motor body repair (a) (b) Important component of drum break BSC/Part-II(M)/Auto.Maint-IV 2 Contd.

(d) Loads on the frame of an auto mobile
 GROUP – B
 5. (a) Why should you cover the carburettor before

Troubles generally meet in breaking system

- decarburizing? What is 'plastigage'?

 (b) Write down the procedures to be adopted for decarbonising different parts of an
- engine. (2+2)+6

 6. Discuss the proper location and scientific layout of servicing stations for automobiles. Describe the steps of servicing the breaking system.

 5+5
 - (a) What are the different types of cooling systems of an engine?(b) Describe, in details, the procedures
 - advopted for inspecting and repairing the cooling system of an engine.

 5+5

GROUP - C

- 8. (a) Name different types of traffic signs.
 - (b) "The Motor Vehicle Act regarding pollution control is not upto the mark" – discuss.
 - (c) Describe briefly main legal provisions regarding "Claims for Compensation".

2+5+3

(c)

7.

- 5×2 9. Write down short notes on any two: (a) Road testing of a vehicle
 - (b) Inspection card
 - Inspection and repair of a vehicle (c)
- Discuss insurance against "Third Party 10. (a) Right". How to claim for compensation?
 - Describe how a fault could be diagonised. (b) 5+5