



2018 III 15

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Seat No. :

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Time : 2 Hours      **AUTO SERVICING AND GARAGE MANAGEMENT (New Pattern)**

**Subject Code**

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Total No. of Questions : 5

(Printed Pages : 2)

Maximum Marks : 50

- INSTRUCTIONS:** 1) Answer **each** question on a **fresh** page.  
2) Write the number of **each** question and **sub questions** **clearly**.  
3) **All** questions are **compulsory**.  
4) Figure to **right** indicate **full** marks.

1. A) Answer the following questions :

- 1) Which grade of oil is used in oil bath type air cleaner ? [1]
- 2) What precautions are to be followed while fitting the cylinder head gasket ? [2]
- 3) State any four precautions to be taken while removing tyres from vehicles. [2]
- 4) How will you prevent the sludge formation in engine lubrication system ? [2]

B) State any six causes of "Engine overheating" due to faulty cooling system. [3]

2. A) Answer the following questions :

- 1) What will happen, if the oil filter gets choked ? [1]
- 2) List out any four good working qualities of Automobile Workshop Manager. [2]
- 3) How will you check the propeller shaft by using dynamic balance method ? [2]
- 4) Write procedure to rectify the trouble "Brakes grabbing" in hydraulic brake system. [2]

B) Write three probable causes and suggest suitable remedies for the following troubles in carburetor : [3]

- a) Difficulty in starting when the engine is cold.
- b) Difficulty in starting when the engine is hot.



3. A) Answer the following questions :
- 1) Write the locations where bleeder nipples are provided in hydraulic braking system. [1]
  - 2) What is the purpose of “Job card” in an Automobile workshop ? [2]
  - 3) How will you repair the cracks, which occur on the chassis frame ? [2]
  - 4) Give any four possible causes when the gear slips out of mesh. [2]
- B) Write procedure to adjust the valve clearance of a car engine. [3]
4. A) Answer the following questions :
- 1) State any two causes which leads to turbocharger failure. [1]
  - 2) How does the basic inventory control is worked out in Automobile industry ? [2]
  - 3) How will you check the tooth contact between a crown and pinion by using red lead past ? [2]
  - 4) How will you inspect the clutch plate of diaphragm type clutch ? [2]
- B) State any six possible causes for “Excessive play in steering system”. [3]
5. A) Answer the following questions :
- 1) How will you repair the air cells of radiator ? [1]
  - 2) State any four traffic rules have to be obeyed while taking off the vehicle from rest. [2]
  - 3) How will you check and adjust the centre-mid position of steering gearbox ? [2]
  - 4) How inspector carry out the inspection of a vehicle to give fitness certificate ? [2]
- B) Give sequences to inspect the following engine components for their serviceability : [3]
- a) Connecting rod big end bearing clearance.
  - b) Ovality of cylinder bore.
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