DAY — **16** SEAT NUMBER | | | | | | |

| 2025 | III | 04 | 1500 | **J-391** | (E) |
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# FOUR WHEELER SERVICE TECHNICIAN (G3)
## (REVISED COURSE)

**Time : 3 Hrs.** **(4 Pages)** **Max. Marks : 80**

***Note :*** *(1) All questions are compulsory.*

*(2) Draw neat and well labelled diagrams wherever necessary.*

*(3) Figures given on the right side are full marks.*

*(4) Write answers to all questions on new pages.*

**Q. 1.** **(A)** Select the correct alternatives and rewrite the sentences : (5) **[20]**

(1) _____ is the primary purpose of a service manual for motor vehicle.

(a) Determining vehicle resale value

(b) Entertainment for the mechanic

(c) Performing repairs and maintenance

(2) _____ menu is used for sequencing the data.

(a) Tool

(b) Data

(c) None of the above

(3) Which of the following components controls the timing and quality of gas or air flow into an engine?

(a) piston ring

(b) rocker arm

(c) valve

(4) The purpose of a propeller shaft is to ____.

(a) clean the engine

(b) transmit power between the gearbox and differential.

(c) control suspension

(5) One of the major functions of the suspension system is to maintain the correct vehicle height from _____ .

(a) road

(b) surface

(c) both a and b

**(B)** Match the following pairs : (5)

| 'A' Group | | 'B' Group | |
|---|---|---|---|
| (a) | Propeller shaft | (1) | Earthing |
| (b) | Service manual | (2) | Maintenance record |
| (c) | Leaf spring | (3) | High load |
| (d) | Suspension system | (4) | Transmit power |
| (e) | Black wire | (5) | Absorb shocks |

**(C)** State whether the following statements are True or False : (5)

(1) Green cables are used for the headlamp circuits.

(2) Solar energy is a clean source of energy.

(3) MPFI system increases the overall efficiency of engine.

(4) Transmission system is used in automobile for shock absorption.

(5) Battery is the heart of the automotive electrical system.

**(D)** Answer the following questions in 'One' sentence only : (5)

(1) Write down use of propeller shaft.

(2) What is meant by organisational skill?

(3) Write down the use of valve mechanism.

(4) What is service manual?

(5) What is the purpose of using automotive electrical symbols?

**Q. 2. Answer the following questions in short (Any FOUR) : [12]**

(1) Write down the five stages of active listening.

(2) Write any six causes of problems and their remedies for cooling system.

(3) Write down benefits of green job.

(4) Write information about leaf spring.

(5) Write down qualities of a successful entrepreneur.

(6) Write information about the oscilloscope.

**Q. 3. Answer the following questions in short (Any FOUR) : [12]**

(1) What is meant by stress and write about how to manage it properly.

(2) Write down the common faults in cooling system.

(3) Write information about propeller shaft in detail.

(4) Write down the general precautions while handling battery.

(5) Write down the features of a spreadsheet.

(6) Write down the importance of checking of electrical connections of lighting system in a vehicle.

**Q. 4. Answer the following questions in detail (Any THREE) :** **[12]**

(1) What is communication skill? Write down the main basic skills needed for communication.

(2) Write down the main functions of a piston ring.

(3) Write a note on multimeter.

(4) Write down the steps for valve reconditioning.

(5) Write about interpersonal skills.

**Q. 5. Answer the following questions in detail (Any THREE) :** **[12]**

(1) List the types of entrepreneurs.

(2) Write the steps of inspection of a battery.

(3) Write the advantages of using service manual.

(4) Write the importance and working of differential.

(5) Write the use of fuse and explain the types of fuses.

**Q. 6. (A)** Answer the following questions in detail (Any ONE) : (6) **[12]**

(1) Write down the importance of suspension system (vehicle) and its advantages.

(2) Explain the MPFI system and write down its advantages.

**(B)** Answer the following questions in detail (Any ONE) : (6)

(1) Write the uses of turbocharger and write about servicing of turbocharger.

(2) Write in detail about the colour code (cables) used in auto electrical system.

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