

2025

Automotive (Vocational)

Total marks: 50

Time : 2 hours

General instructions:

- i) *Approximately 10 minutes is allotted to read the question paper and revise the answers.*
- ii) *All questions are compulsory.*
- iii) *The question paper consists of 21 questions.*
- iv) *Marks allocated to every question are indicated against it.*

N.B: *Check that all pages of the question paper are complete as indicated on the top left side.*

1. Choose the correct answer from the given alternatives: 10x1=10

- i. Convictions or acceptance that something is true or exists are called
 - (a) Prejudgements
 - (b) Distractions
 - (c) Filtering
 - (d) Beliefs
- ii. This disorder is also called avoidant personality disorder
 - (a) Suspicious
 - (b) Anxious
 - (c) Emotional
 - (d) Impulsive
- iii. Which of the following is a short cut key to insert new slide in a presentation?
 - (a) Control+L
 - (b) Control+M
 - (c) Control+N
 - (d) Control+X
- iv. Business person who engages in commercial and trading operations are known as
 - (a) Business entrepreneurs
 - (b) Social entrepreneurs
 - (c) Industrial entrepreneurs
 - (d) Service entrepreneurs
- v. Which manual contains the procedure of using a particular system or device?
 - (a) Policy manual
 - (b) Training manual
 - (c) User manual
 - (d) Service manual
- vi. Which of the following can be used to convert thermal energy into mechanical work?
 - (a) Poppet valve
 - (b) Radiator
 - (c) Piston
 - (d) Turbo charger
- vii. The process of aligning the steering and suspension components to ensure optimal performance and handling is
 - (a) Steering adjustment
 - (b) Steering system
 - (c) Suspension upgradation
 - (d) Steering comfort
- viii. Identify the correct stages of engine overhauling
 - (a) Testing, Inspection, Disassembly, Repair, Reassembly
 - (b) Inspection, Testing, Disassembly, Repair, Reassembly
 - (c) Disassembly, Inspection, Repair, Reassembly, Testing
 - (d) Inspection, Disassembly, Repair, Reassembly, Testing
- ix. These lights are typically white and are mounted at the front of the vehicles
 - (a) Turn lights
 - (b) Fog lamps
 - (c) Brake lights
 - (d) Head lights

- x. A device that controls the passage of current between the generator and the battery is
- | | |
|---------------|----------------|
| (a) Generator | (b) Relay |
| (c) Regulator | (d) Alternator |

Answer the following questions in one word or one sentence:

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|--|---|
| 2. Define active listening. | 1 |
| 3. List two types of personality traits. | 1 |
| 4. Write one use of spreadsheet. | 1 |
| 5. Who is an entrepreneur? | 1 |
| 6. What is warranty policy? | 1 |
| 7. Name any two materials that is used in making connecting rod. | 1 |
| 8. What is clutch? | 1 |
| 9. Write one requirement of a suspension system. | 1 |

Answer the following questions in 20-50 words:

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|--|---|
| 10. Briefly explain two benefits of green jobs. | 2 |
| 11. Differentiate between service manual and training manual. | 2 |
| 12. What is the use of engine bearing? Write one function of engine bearing. | 2 |
| 13. Differentiate between reversible and irreversible steering. | 2 |
| 14. Differentiate between top overhaul and full overhaul. | 2 |
| 15. List two functions of steering system. | 2 |
| 16. State two functions of ignition system. | 2 |
| 17. Differentiate between rechargeable and non-rechargeable battery. | 2 |

Answer the following questions in 60-100 words:

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|---|---|
| 18. a. Explain the maintenance procedure of coolant system. | |
| Or | 4 |
| b. Explain any four valve mechanism. | |
| 19. Write two advantages and disadvantages of propeller shaft. | 4 |
| 20. a. Explain briefly any four components of ignition system. | |
| Or | 4 |
| b. Explain any four symptoms of failing starter. | |
| 21. Write four differences between electric power steering and hydraulic steering system. | 4 |
