

2022
CLASS - XI
Automotive (Vocational)

Total marks : 50

Time : 2 hours

General instructions :

- i) *Approximately 15 minutes is allotted to read the question paper and revise the answers.*
- ii) *All questions are compulsory except Q. nos.18 to 23 where general option is given.*
- iii) *The question paper consists of 23 questions.*
- iv) *Marks allocated to every question are indicated against it.*

N.B: *Check to ensure 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. A figure bounded by four straight sides is called
 - a) equilateral triangle
 - b) quadrilateral
 - c) triangle
 - d) square
- ii. Loose induction manifold may cause
 - a) vacuum leakage
 - b) pressure leakage
 - c) hydraulic leakage
 - d) emission leakage
- iii. Which of the following is not a component of the gearbox?
 - a) Gear linkage
 - b) Gear lever
 - c) Piston
 - d) Gear shifter lock
- iv. It is a single casted unit mounted on stub axle shaft or on the casing.
 - a) Wheel hub
 - b) Disc wheels
 - c) Alloy wheel
 - d) Forged wheel
- v. Brakes which are assisted to work on compressed air are called
 - a) mechanical brakes
 - b) hydraulic brakes
 - c) disc brakes
 - d) pneumatic brakes
- vi. Which of the following is the correct example of oral communication?
 - a) Reports
 - b) Newspapers
 - c) Face-to-face interaction
 - d) Notes
- vii. The practice or habit of keeping ourselves clean is known as
 - a) personal hygiene
 - b) grooming
 - c) cleanliness
 - d) healthy life style
- viii. Which menu option has the commands Save, Print and Close?
 - a) Insert
 - b) File
 - c) Tools
 - d) Format
- ix. Which short cut key is used to create a new document?
 - a) Ctrl+c
 - b) Ctrl+d
 - c) Ctrl+n
 - d) Ctrl+x
- x. Swachh Bharat Abhiyan is associated with
 - a) renewable energy
 - b) clean energy
 - c) social protection
 - d) sanitation and cleanliness

Answer the following questions in one word or one sentence:

- 2. What is construction in geometry? 1
- 3. Write the full form of HSLA. 1
- 4. What is an odometer? 1
- 5. What is a gearbox? 1
- 6. Mention any one step for repairing mechanical brakes. 1
- 7. What is self motivation? 1
- 8. Write any two principles of idea creation. 1
- 9. In SMART goal setting, what does the letter 'A' and 'T' stands for? 1

Answer the following questions in 20-50 words:

- 10. What is a mechanical fastener? Give two examples. 1+1=2
- 11. Differentiate between direct and indirect measuring instruments. 2
- 12. State any two selective procedures to check the leakage in an engine. 2
- 13. What is the transmission system in an automotive? Mention any two things that should be checked regularly in this system. 1+1=2
- 14. Mention any two steps of changing lubricating oil. 2
- 15. Write any two advantages of tubeless tyre. 2
- 16. Write any two functions of a good braking system. 2
- 17. What is the main difference between manufacturing and trading business activities? 2

Answer any four from the following questions in 60-100 words:

- 18. Write the meanings of any four types of basic line. 4
- 19. Briefly explain any four types of bolt. 4
- 20. State four advantages of using plastic in the automobile industry. 4
- 21. Write any four steps for fuel tuning. 4
- 22. Briefly explain four components of the transmission system of a car. 4
- 23. Mention four differences between cold patch and hot patch method of repairing punctured tube. 4
