

NAVODAYA VIDYALAYA SAMITI
PRE BOARD EXAM (SESSION 2025-26)
PRE BOARD-02



CLASS : X

TOTAL MARKS : 50

SUBJECT : AUTOMOTIVE (CODE- 404)

TIME : 2 Hours.

General Instructions :

- (i) Please read the instructions carefully.
- (ii) This question paper consists of 21 questions in two sections : Section A & Section B.
- (iii) Section-A has Objective Type Questions whereas Section B contains Subjective type questions.
- (iv) Out of the given (5 + 16 =) 21 questions, a candidate has to answer (5 + 10 =) 15 questions in the allotted (maximum) time of 2 hours.
- (v) All questions of a particular section must be attempted in the correct order.

SECTION-A – OBJECTIVE TYPE QUESTIONS (24 MARKS)

1. Answer any 4 out of the given 6 questions on Employability skills.

4 x 1 = 4

(i) Unmanaged stress can make you feel worried and sad, which can harm your _____. 1

- (a) mental and physical health
- (b) physical health
- (c) understanding
- (d) working ability

(ii) A paragraph is a group of sentences that are connected and talk about _____. 1

- (a) adverb
- (b) noun
- (c) single topic
- (d) multiple topics

(iii) _____ helps people think about future results instead of just short feelings. 1

- (a) Self-awareness
- (b) Self-motivation
- (c) Self-creativity
- (d) Self-regulation

(iv) _____ means changing how text looks in a document using different fonts, colors, and sizes. 1

(v) Entrepreneurs use things and people near them to make products _____. 1

- (a) at higher cost
- (b) at low cost
- (c) attractive
- (d) a high quality

(vi) The non-living part of the environment called lithosphere is the _____. 1

- (a) Water bodies
- (b) Ocean
- (c) Outer layer of earth
- (d) Seas

2. Answer any 5 out of the given 6 questions.

5 x 1 = 5

(i) _____ helps make bumpy roads feel smoother and keeps the car safe. 1

(a) Transmission system (b) Steering system (c) Braking system (d) Suspension system

(ii) In a 4 x 4 drive vehicle, there are 4 wheels and _____ drive the vehicle. 1

(a) one of them (b) three of them (c) all of them (d) none of them

(iii) What book comes with every new car to help with its care? 1

(iv) The spinning motion from the transmission goes to the back wheels through the _____. 1

(a) flywheel (b) propeller shaft (c) auxiliary shaft (d) counter shaft

(v) Lubricant helps to lower _____ and stop parts from wearing out. 1

(a) friction (b) power (c) efficiency (d) load

(vi) Steering gear changes the turning of the wheel into back-and-forth motion of the _____. 1

(a) drag link (b) drop arm (c) pull and push rod (d) cross shaft

3. Answer any 5 out of the given 6 questions.

5 x 1 = 5

(i) Name the tools used to tighten or loosen nuts and bolts. 1

(ii) A hand tool for cutting or chipping metal is called a _____. 1

(a) Plier (b) Hand hacksaw (c) File (d) Chisel

(iii) A hydrometer is made of glass with a stem and a _____. 1

(a) bulb weighted (b) float (c) valve (d) weightless bulb

(iv) A tool to measure how fast an engine is running is called a _____. 1

(a) Voltmeter (b) Multimeter (c) Hydrometer (d) Tachometer

(v) A machine that makes parts smooth and exact in size is a _____ machine. 1

(a) cutting (b) grinding (c) drilling (d) winding

(vi) Cars are tested in special places to check how they work in _____ weather. 1

(a) perfect (b) normal (c) extreme (d) frequent operating

4. Answer any 5 out of the given 6 questions.

5 x 1 = 5

(i) In automatic car wash, cleaning happens along with _____. 1

- (a) foam washing (b) testing (c) dry washing (d) maintenance

(ii) Why do cars need an air filter? 1

(iii) Change car coolant every two years, but some cars differ based on the _____ used. 1

- (a) radiator (b) coolant (c) water pump (d) engine oil

(iv) How long do most consumer electronics last? 1

(v) If a car has run 4000 to 15000 km, you need to _____. 1

- (a) top up the engine oil (b) change the oil filter (c) change the engine oil (d) clean the oil filter

(vi) Some cars need _____ to remove fuel parts when changing fuel filter. 1

- (a) ring spanner (b) spanners (c) special tools (d) plier

5. Answer any 5 out of the given 6 questions.

5 x 1 = 5

(i) Two key parts of good body language are _____. 1

- (a) Communication and Eye contact (b) Smiling and Cheering
(c) Explanation and Smiling (d) Smiling and Eye contact

(ii) A car salesperson should _____. 1

- (a) explains fully the performance of product, application and benefits (b) ensure good maintenance
(c) issues driving license (d) arranges tours and guides

(iii) Why do car makers spend a lot on research and development? 1

(iv) Cars that use both electricity and petrol are called _____ cars. 1

- (a) high speed (b) elect-petro
(c) hybrid (d) green

(v) Testing cars in weather labs copies _____ conditions. 1

- (a) overheating (b) monsoon and wind storm
(c) inclement weather (d) temperature and pressure

(vi) A big part of customer service is the _____. 1

- (a) provision of pre-sale service (b) good servicing (c) feel good factor (d) proper maintenance

SECTION-B – SUBJECTIVE TYPE QUESTIONS (26 MARKS)

Answer any 3 out of the given 5 questions on Employability Skills.

Answer each question in 20-30 words.

3 x 2 = 6

6. What is Communication ? what are the types ? 2

7. How does yoga help with stress? 2

8. What is Sustainable development . 2

9. Write names of operating system in computers? 2

10. Name three qualities of a good entrepreneur. 2

Answer any 4 out of the given 6 questions in 20-30 words each.

4 x 2 = 8

11. Write According to the fitting of engine the classification of Chassis . 2

12. List the different part of the vehicle body? 2

13. Why are measuring tools important in a car workshop? 2

14. How to safely throw away old engine oil and filter? 2

15. How does a car salesperson promise good service to customers? 2

16. What is a hybrid drive train? 2

Answer any 3 out of the given 5 questions in 50-80 words each.

3 x 4 = 12

17. Write a Properties of a good lubricant. 4

18. What are the steps to be followed for manual washing of a vehicle? 4

19. List the Names measuring tools and explain a caliper. 4

20. What is a Job role of Automobile Sales Person? 4

21. Rohit needs to list **5 new car safety features** in a new car model and explain **night vision assist**.
Do it for him. 4