

# Olympiad Questionnaire

## Multiple Choice Questions

1. What is the Indian government's initiative to promote electric vehicles in India called?  
A. Green India Drive      B. Clean Energy Revolution  
C. Make in India      D. FAME India
2. Who is the cofounder and CEO of Tesla, Inc., known for his ambitious goals in advancing electric vehicles?  
A. Elon Musk      B. Tim Cook  
C. Jim Farley      D. Akio Toyoda
3. Which of the following is a common maintenance activity for vehicles?  
A. Reading manuals      B. Changing engine oil  
C. Cooking food      D. Painting walls
4. What is a service manual used for?  
A. Reading stories      B. Giving food recipes  
C. Guiding vehicle repairs and maintenance      D. Playing music
5. What does the term 'assembly line' mean in automobile manufacturing?  
A. A line for painting cars      B. A method for making vehicles step by step  
C. A row of parked cars      D. A line where cars are washed
6. What is the frictional force in a braking system if the brake pads offer a normal force of 20 Newton and the coefficient of friction is 0.4?  
A. 4 Newton      B. 8 Newton  
C. 2 Newton      D. 40 Newton
7. What is the first thing a salesperson usually does when a customer enters a showroom?  
A. Starts repairing the car      B. Greets the customer and asks how they can help  
C. Begins cleaning the showroom      D. Offers a test drive immediately

8. What does a "test drive" mean?

- A. Driving the car after buying it
- B. Watching a car video
- C. Driving the car before buying it to see how it works
- D. Driving the car to a mechanic

9. Which of the following is an example of a decision-making skill?

- A. Forgetting your priorities  
B. Thinking before choosing  
C. Copying others  
D. Waiting for others to decide for you

10. What does 'problem-solving' mean?

- A. Ignoring the problem  
B. Complaining about problems  
C. Finding solutions to challenges  
D. Blaming others for the issue

11. What is the main purpose of an internal combustion engine in most vehicles?

- A. Cool the car  
C. Convert chemical energy into mechanical energy system
- B. Reduce pollution  
D. Power the air conditioning

12. What is the primary role of a transmission in a vehicle?

- A. Provide comfort to passengers      B. Transfer power from the engine to the wheel  
C. Control the direction of the car      D. Manage fuel injection

13. Which of the following parts does not include an automobile chassis?

- A. Differential  
B. Brakes  
C. Steering system  
D. Shock absorbers

14. What is an IC Engine?

- A. The fuel is ignited and burned inside the engine
- B. The fuel is burned inside a combustion chamber
- C. The fuel is ignited inside a combustion chamber
- D. None of the above

15. A car needs servicing every 5,000 km. If a driver travels 80 km per day, after how many days will the car need its next service?

- A. 50 days  
B. 62.5 days  
C. 64 days  
D. 72.5 days

16. What does the term "fuel efficiency" refer to in an automobile?

- A. The amount of fuel an engine uses to maintain speed  
B. The ability of a vehicle to convert fuel into energy  
C. The time it takes for a car to go from 0 to 100 km/h  
D. The size of the fuel tank in the car
17. What is the term used for the period when a car's value decreases after it is driven off dealership lot?  
A. Warranty Period      B. Lease Term  
C. Appreciation      D. Depreciation
18. A car dealership sells a car at a price of ₹7,00,000, having purchased it for ₹5,80,000. What is the profit percentage?  
A. 18.97%      B. 20.69%  
C. 16.67%      D. 21.55%
19. Your friend found a product online, which can increase memory by 300% instantly. What should you do?  
A. Believe him and order the product      B. Ignore him completely  
C. Research and check for scientific evidence      D. Post it on social media for fun
20. Sheena wants to improve her public speaking. What is the SMART goal for her?  
A. "I want to be the best speaker."  
B. "I will speak confidently someday."  
C. "I will join a speaking club and practice weekly for 3 months."  
D. "I hope I can talk better soon."
21. The introduction of safety features such as airbags, ABS, and ESC (Electronic Stability Control) in cars has primarily been to:  
A. Improve the aesthetic appeal of vehicles  
B. Increase the cost of the vehicle  
C. Enhance vehicle safety and reduce accident-related injuries  
D. Enhance vehicle performance in extreme conditions
22. Which of the following is the most significant benefit of using lightweight materials in automobile manufacturing?  
A. Increased vehicle strength      B. Improved aerodynamics

C. Enhanced fuel efficiency and performance      D. Easier maintenance and repair

23. Which component is primarily responsible for reducing harmful emissions in an automobile engine?

- A. Radiator      B. Catalytic converter  
C. Alternator      D. Spark plug

24. When a car's engine starts misfiring, which of the following is most likely to be the cause?

- A. Defective clutch plate      B. Worn-out spark plugs  
C. Faulty fuel filter      D. Malfunctioning radiator

25. Why is robotic painting preferred over manual painting in automobile manufacturing?

- A. Reduces paint consumption      B. Ensures consistent finish  
C. Less damage risk      D. All of the above

26. Which process is used to bond different metal parts in automobile manufacturing?

- A. Injection molding      B. Welding  
C. Casting      D. Electroplating

27. What affects the retail price of a new car the most?

- A. Raw material cost      B. Brand reputation  
C. Demand and supply      D. Fuel efficiency

28. Loan for ₹6,00,000 at 10% annual interest for 3 years. Total interest?

- A. ₹1,80,000      B. ₹1,60,000  
C. ₹1,40,000      D. ₹2,00,000

29. Best way to manage stress due to school, sports, expectations?

- A. Quit responsibilities      B. Vent online  
C. Prioritize, take breaks, talk to mentor      D. Push through everything

30. Best team strategy if two members aren't cooperating?

- A. Hold meeting to reassign fairly      B. Do project alone  
C. Tell teacher      D. Exclude them

## Answer Key

1. D	2. A	3. B	4. C
5. B	6. B	7. B	8. C
9. B	10. C	11. C	12. B
13. A	14. A	15. B	16. B
17. D	18. B	19. C	20. C
21. C	22. C	23. B	24. B
25. D	26. B	27. C	28. A
29. C	30. A		