

13.7 Eco-friendly use of Motor Vehicle / dealing with traffic restrictions

1. (3P) You are driving through city traffic in rush hour. What are the effects of stop-and-go driving? My vehicle

- a) Consumes more fuel
- b) Creates more exhaust gases
- c) Creates more nuisances for others

2. (3P) What information should you obtain before undertaking a journey with a purely electric vehicle?

- a) Factors that influence the range
- b) What I have to do following an accident
- c) The locations at which I can charge the vehicle

3. (2P) You are planning a longer journey with a purely electric vehicle. What should you be aware of?

- a) The battery charging time
- b) The availability of electric charging stations
- c) The influence of external ambient temperatures on the range

4. (3P) What must be regularly serviced to prevent high fuel consumption and excessive pollutant emission?

- a) Carburettor or fuel-injection system
- b) Ignition system
- c) Engine air filter

5. (3P) What kind of driving results in high fuel consumption?

- a) Revving up all gears
- b) Driving at high speed
- c) Fast starts and unnecessary acceleration

6. What can help save fuel and reduce pollution?

- a) Using public transport, a bicycle or walking, wherever possible
- b) Paying attention to the fuel consumption of a motor vehicle when buying it
- c) Contributing to a constant flow of traffic by thinking ahead and driving correspondingly

7. How can you keep the burden on the environment low?

- a) By forming car pools
- b) By avoiding peak traffic periods
- c) By avoiding roads with frequent traffic jams

8. What should you avoid for reasons of environmental pollution?

- a) Unnecessary trips
- b) Loud music with windows opened
- c) Letting the engine warm up when the vehicle is stationary

9. Which conduct shows awareness of the environment?

- a) The formation of car pools
- b) Switching off the engine in a traffic jam
- c) Changing to public transport at collective parking areas ("P+R")

10. When planning your journey, how can you make them environmentally-friendlier? By ____

- a) Forming car pools with other vehicle users
- b) Combining several destinations into one single trip
- c) Planning to use public transport instead of my own vehicle

11. What manufacturer specifications will allow you to know if your motor vehicle is environmentally-friendly? From the details _____

- a) About the emissions class
 - b) About the fuel consumption
 - c) About the efficiency category
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12. (3P) What should you be aware of when charging purely electric vehicles?

- a) The charge time depends on the power supply
- b) Charging should only be performed with a charging cable approved by the manufacturer
- c) ~~Charging is available at every filling station~~

13. (3P) How is a purely electric vehicle different from a vehicle with a combustion engine? Purely electric vehicles

- a) Do not have any direct exhaust emissions
- b) Have a lower engine noise
- c) ~~Have a lower aerodynamic drag~~

14. (3P) You are driving a purely electric vehicle in a residential area. What should you be aware of due to your lower engine noise?

- a) Cyclists travelling ahead will turn left, without looking behind them
- b) Pedestrians will not notice me or will do so later than usual
- c) ~~Vehicles following behind will tailgate me~~

15. (3P) What should you do to protect the environment? When

- a) A lot of smoke is coming from the exhaust, I should arrange for the motor vehicle to be checked
- b) Waiting for prolonged periods, I should switch off the engine
- c) ~~Driving, I should use the upper engine speed range~~

16. (3P) What must you remember in the interests of environmental protection?

- a) To avoid running the engine unnecessarily when you are stationary
- b) To avoid driving back and forth unnecessarily
- c) ~~To drive with high revolutions per minute too often~~

17. (3P) When should you switch off the engine to save fuel and reduce pollution?

- a) When you have to wait at level crossings or building sites
- b) When you have to wait in a traffic jam for a long time
- c) ~~When you stop at a "STOP" sign~~

18. (4P) Your vehicle loses oil. How much drinking water can be polluted by a single drop of oil? Upto

- a) 600 litres
- b) ~~50 litres~~
- c) ~~1 litre~~

19. (3P) What must you remember when refuelling?

- a) Do not refuel when the tank is full and the nozzle has switched off
- b) Do not breath in any fuel fumes
- c) ~~Fill up to the brim if possible~~

20. (3P) The engine and exhaust system of a vehicle have been "souped up". What could be the effects?

- a) Increased noise pollution
- b) Increased pollutant emission

- c) ~~Considerable reduction in fuel consumption~~

21. (3P) What can cause unnecessary noise pollution when driving?

- a) A defective exhaust
- b) Unnecessarily fast acceleration
- c) ~~Driving at low revolutions per minute~~

22. (3P) How should you change gears in order to drive with particular consideration to the environment and fuel saving?

- a) Change to a higher gear as early as possible
- b) Change to a lower gear as late as possible
- c) ~~Change gears only when reaching the upper revolution limit~~

23. (3P) What is important to avoid pollution and to save energy when driving?

- a) Check the fuel consumption regularly
- b) Have the engine tuning checked regularly
- c) ~~Wash the engine regularly, at least four times a year~~

24. (3P) How is fuel wasted and the environment polluted?

- a) By "playing with the accelerator" while waiting at traffic lights
- b) By driving in a hectic manner
- c) ~~Using a high gear driving downhill~~

25. (3P) What indicates excessive petrol consumption due to high wear or wrong tuning of the engine?

- a) A lot of dark exhaust smoke
- b) ~~Condensation water from the exhaust~~

26. (3P) How do you drive with consideration to the environment?

- a) Decelerate in good time and use the momentum of the car when the next traffic light is on red
- b) Avoid unnecessary acceleration and unnecessary braking
- c) ~~Always accelerate to the maximum when the traffic light changes to green~~

27. How can you cover more kilometres on less fuel?

- a) Think ahead when driving in order to avoid unnecessary acceleration and braking
- b) Accelerate in such a way that the highest possible gear is quickly reached
- c) ~~By pushing all gears to the highest possible revolutions~~

28. Why does environment friendly driving in general have a beneficial effect on traffic safety?

- a) Because environment friendly driving avoids high speeds so that dangerous situations occur less frequently
- b) Because drivers think ahead when travelling, so that possible dangers can be recognized in time and well avoided
- c) ~~Because you can only drive slowly using alternative fuels~~

29. How can you save fuel?

- a) Change to lower gear later
- b) Change to higher gear earlier
- c) ~~By driving frequently at high revolutions~~

30. How can noise be avoided?

- a) By switching off the engine if you have to wait or stop for a longer period
- b) If possible, avoid strong acceleration
- c) ~~By driving at high revolutions~~

31. How is avoidable noise caused?

- a) By “playing” with the accelerator when standing still
- b) By driving with a defective exhaust
- c) ~~By sounding your horn when in danger~~

32. Why should you avoid driving off at a rapid pace?

- a) Because of heavier tyre wear
- b) Because the noise you cause annoys others
- c) ~~Because this is a great strain on the rear brake~~

33. How can you avoid pollution of the environment and benefit your engine after a cold start?

- a) Set off at low revolutions per minute without running the engine until it warms up
- b) ~~Accelerate several times when stationary so that a favourable operation temperature is quickly reached~~
- c) ~~Do not accelerate, let the engine warm up while the vehicle is stationary~~

34. What must you know about catalytic converters?

- a) A catalytic converter can be damaged or destroyed when the car is towed to start
- b) A catalytic converter can be damaged when the engine starts after many unsuccessful attempts
- c) ~~Unburned fuel in the catalytic converter cannot cause any damage when the engine starts~~

35. How can you save fuel when driving a motor vehicle with automatic transmission?

- a) By not using the “kick down” facility, if possible
- b) ~~By driving in gear “P” if possible~~
- c) ~~When driving in town traffic, always keep the selector level in the lowest gear~~

36. What results in increased fuel consumption of your car?

- a) Transporting unnecessary objects
- b) A roof rack or ski rack
- c) ~~Excessive tyre pressure~~

37. How can you save fuel?

- a) By observing at least the tyre pressure indicated in the owner’s manual
- b) By removing roof racks or ski racks
- c) ~~Avoid driving in top gear~~

38. How can you reduce noise?

- a) By driving in 4th or 5th gear in built-up areas
- b) By driving at high engine revolutions
- c) ~~By driving at high speed~~

39. When are you allowed to enter an environmental zone?

- a) When your vehicle has a corresponding emissions sticker
- b) When your vehicle enjoys special rights
- c) ~~When you have a low-emission vehicle~~

40. Where do you have to place the emissions sticker for identifying low emission vehicle?

- a) Clearly visible on the inside of the windscreen
- b) ~~Clearly visible on the outside of the windscreen~~
- c) ~~Clearly visible on the inside of the rear window~~

41. Why are you required to have a defective exhaust system repaired immediately?

- a) Because parts of the exhaust system can drop on the roadway
- b) Because of the noise pollution
- c) ~~Because the engine would overheat~~

42. The noise of the exhaust has suddenly become louder than usual. What do you do?

- a) Check the exhaust system
- b) ~~Renew the engine air filter~~
- c) ~~Nothing because nobody is endangered~~

43. How can you achieve efficient fuel consumption and low pollutant emissions?

- a) By maintaining an even driving style at low engine speeds
- b) By having the proper tyre pressure
- c) ~~By using the total capacity of every gear~~

44. What can you do to help protect the environment? I should avoid _____

- a) Driving short distances
- b) Driving at flat-out speed
- c) Driving in crowded city centres

45. Other road users draw your attention to the persistent thick smoke coming from your exhaust. What do you have to do?

- a) Have the vehicle promptly checked
- b) ~~Change down gears early~~
- c) ~~Change up gears early~~

46. How can you reduce the noise made by car?

- a) By driving at low engine speed
- b) ~~By removing the air filter~~
- c) ~~By using all-terrain tyres~~

47. Where can used oil, lubricants and car batteries be taken to be disposed of properly?

- a) To car workshops
- b) To recycling centres
- c) ~~In the household waste~~

48. How can you drive fuel-efficiently when travelling at a constant speed?

- a) By using cruise control
- b) By driving at a low engine speed
- c) ~~By driving at a high engine speed~~

49. At which engine speed range will fuel consumption be lower?

- a) At low engine speed
- b) ~~At high engine speed~~

50. You have to wait because of a closed rail-crossing barrier. How can you now help protect the environment and save fuel?

- a) By switching off the engine
- b) ~~By letting the engine idle~~
- c) ~~By switching off the automatic start-stop~~

51. What measures help protect the environment? Using _____

- a) Low-resistance tyres

- b) Low viscosity engine oil
- c) ~~Air-conditioning systems~~

52. What should you do after starting the vehicle? I should _____

- a) Drive off as promptly as possible
- b) Drive at low engine speeds where possible
- c) ~~If possible, allow the engine of the stationary vehicle to warm up~~

53. How can you save fuel? By _____

- a) Driving in a foresighted manner
- b) Removing any non-essential roof boxes etc
- c) ~~Driving with winter tyres the whole year around~~

54. What vehicles are generally exempt from the ban on road traffic in "environmental zones"?

- a) Ambulance on duty
- b) Agricultural and forestry tractors
- c) ~~All motor vehicles belonging to the environmental zone inhabitants~~

55. You want to wash your car. Where should you do this in the interests of environmental protection?

- a) At a carwash
- b) ~~In a carpark~~
- c) ~~On an open road~~

56. What increases the fuel consumption of your vehicle considerably? The use of _____

- a) Heated seats
- b) The air-conditioning
- c) ~~The navigation device~~

57. When is it sensible to switch off a combustion engine?

- a) During lengthy waits at rail crossings
- b) When loading and unloading the vehicle
- c) ~~When stopping at intersections with a stop sign~~

58. What motor vehicles are permitted to enter an environment zone without a fine-particle badge?

- a) All two and three-wheeled motor vehicles
- b) All agricultural and forestry tractors
- c) ~~All motor vehicles with a catalytic converter~~


59. Why are short journey performed with a cold engine especially damaging to the environment? Because driving with a cold engine means _____

- a) More fuel is consumed
- b) The level of material wear is higher
- c) ~~The vehicle's battery will be over-charged~~


60. What causes avoidable noise?

- a) By sounding the horn as a greeting
- b) By firmly slamming doors shut
- c) ~~By driving with a roof rack~~

61. Which vehicles are allowed to enter this environment zone?

 The image shows a rectangular sign with a red circle and a diagonal line through it, with the word 'Umwelt' above it and 'ZONE' below it. Below this is a smaller rectangular sign with three colored circles (red, yellow, green) and the word 'frei' below them.	<ul style="list-style-type: none">a) A motorcycleb) A car with a red emissions stickerc) A car which meets the requirements for a green sticker even if it does not have an emissions sticker
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62. If your car has a petrol engine but does not have an emissions sticker, are you allowed to enter an environmental zone which is sign-posted as follows?

 The image shows a rectangular sign with a red circle and a diagonal line through it, with the word 'Umwelt' above it and 'ZONE' below it. Below this is a smaller rectangular sign with three colored circles (red, yellow, green) and the word 'frei' below them.	<ul style="list-style-type: none">a) No, because my car does not have an emissions stickerb) Yes, because this prohibition only applies to diesel vehiclesc) Yes, because I am driving a car with catalytic converter with lambda control
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