

EMISSION CONTROL SYSTEM

Q. ID: ITISKILL8103J8

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Question Paper

Duration: 60 Mins

Total Marks: 21

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Student Name: _____ Roll No: _____

1. Which one of the hydro carbon (HC) emitted due to lack of oxygen?

- A) From carburettor B) From exhaust manifold
C) From blow by crank case D) From fuel tank

2. Which is the proposed date of implementation of Bharat stage - 5 in entire country?

- A) 1.4.2025 B) 1.4.2020
C) 1.4.2018 D) 1.4.2019

3. What is the purpose of the EVAP canister?

- A) to trap the leak off fuel B) to trap the fresh charge
C) to trap the fuel vapour D) to trap the exhaust gas

4. Which reaction is irrelevant to the 3 way catalytic converters?

- A) $C + CO_2$ B) $CO + H_2O \rightarrow CO_2 + H_2$
C) $HC + H_2O \rightarrow CO_2 + H_2$ D) $NO + H_2 \rightarrow N_2 + H_2O$
O₂ CO₂ Co

5. Which device changes carbon monoxide into carbon dioxide in the exhaust gas?

- A) Canister B) Exhaust gas regulator
C) Muffler D) Catalytic converter

6. What is the acronym for EGR in emission control system?

- A) Exhaust gas recirculation B) Emission gas recirculation
C) Exhaust gate regulator D) Engine gas recirculation

7. Where is connected the EVAP canister outlet?

- A) Exhaust manifold B) Intake manifold
C) Fuel tank D) Catalyst converter

8. Which type of vehicle emission is measured in g/Km??

- A) Heavy motor vehicles (HMV) B) Two wheeler only
C) Two wheeler and LMV D) Light motor vehicle (LMV) only

9. What is the effect of high sulphur content in fuel?

- A) Fungus in the cylinder walls B) Pitting in the engine parts
C) In complete combustion D) Corrosive Wear of engine parts

10. Which type of engine uses SCR for emission control?

- A) LPG engine B) Petrol engine
C) CNG engine D) Diesel engine

11. What is acronym for SCR in emission control system?

- A) Selective controlled rectifier B) Selective controlled reduction
C) Selective catalytic reduction D) Silicon controlled rectifier

12. What are the major constituents of blow by gas?

- A) CO B) NO_x
C) CO₂ D) Hydro carbon

13. Which type of the emission control system that blow by gases are fed in to the inlet manifold of a running engine?

- A) Catalytic conversion B) Positive crank case ventilation
C) Crank case ventilation D) Exhaust gas recirculation

14. What does EPA refer to environment?

- A) Environmental prevention act B) Environmental provision act
C) Environmental provision agency D) Environmental protection agency

15. Which is a colourless, odourless tasteless and highly toxic gas?

- A) NO_x B) SO_x
C) CO D) CO₂

16. Which controls the EGR valve in modern vehicle?

- A) Solenoid controlled valve B) Linear electronic controlled valve

- C) Vacuum regulated valve D) Engine vacuum controlled valve

17. Which type of fuel is recommended for catalytic converter installed engines?

- A) High speed diesel B) Low speed diesel
C) Unleaded petrol D) Leaded petrol

18. Which type of vehicle emissions is measured in g/kWh?

- A) Heavy motor vehicle B) Two wheeler
C) Light motor vehicle D) Two wheeler and light motor vehicle

19. What is acronym for DEF in selective catalytic reduction?

- A) Diesel exhaust fluid B) Diesel emission fluid
C) Diesel engine fuse D) Diesel engine fluid

20. When does a fresh charge escapes from the petrol engine exhaust?

- A) During valve open B) During valve lead
C) During valve lag D) During valve overlap

21. Which emission react with other compounds in the atmosphere to produce photo chemical smog?

- A) PM B) SO₂
C) CO D) HC