

EMISSION CONTROL SYSTEM

Q. ID: ITISKILL8103J8

February 2026

Answer Key

Duration: 60 Mins

Total Marks: 21

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

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

Answer: C) Catalytic converter

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

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

Answer: C) Unleaded petrol

3. What is the purpose of the EVAP canister?

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

Answer: C) to trap the fuel vapour

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

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

Answer: D) Two wheeler and LMV

5. What does EPA refers to environment?

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

Answer: B) Environmental protection agency

6. Where is connected the EVAP canister outlet?

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

Answer: A) Intet manifold

7. Which type of vehicle emissions is measured in g/Kwh??

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

Answer: B) Heavy motor vehicle

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

- A) From blow by crank case
- B) From carburettor

C) From fuel tank

D) From exhaust manifold

Answer: D) From exhaust manifold

9. Which controls the EGR valve in modern vehicle?

- A) Linear electronic controlled valve
- B) Engine vacuum controlled valve
- C) Vacuum regulated valve
- D) Solenoid controlled valve

Answer: A) Linear electronic controlled valve

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

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

Answer: B) Diesel engine

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

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

Answer: C) Diesel exhaust fluid

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

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

Answer: C) Positive crank case ventilation

13. What is the major constituents of blow by gas?

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

Answer: A) Hydro carbon

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

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

Answer: C) Corrosive Wear of engine parts

15. Which is the proposed date of implementation of bharat stage - 5 in entire country?

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

Answer: C) 1.4.2020

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

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

Answer: B) During valve overlap

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

- A) $C + CO_2 \rightarrow 2CO$
- B) $NO + N_2 \rightarrow N_2O + CO_2$
- C) $CO + H_2O \rightarrow CO_2 + H_2$
- D) $HC + O_2 \rightarrow CO_2 + H_2O$

Answer: A) $C + CO_2 \rightarrow 2CO$

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

- A) PM
- B) SO_x
- C) CO
- D) HC

Answer: D) HC

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

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

Answer: B) Selective catalytic reduction

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

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

Answer: D) Exhaust gas recirculation

21. Which is a colourless, odourless tasteless and high toxic gas?

- A) NO_x
- B) CO
- C) CO_2
- D) SO_x

Answer: B) CO