

EMISSION CONTROL SYSTEM

Q. ID: ITISKILL64155D

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Question Paper

Duration: 60 Mins

Total Marks: 21

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Student Name: _____

Roll No: _____

1. What does EPA refers to environment?

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

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

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

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

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

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

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

5. Which controls the EGR valve in modern vehicle?

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

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

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

7. What is the purpose of the EVAP canister?

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

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

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

9. Which type of the emission control system that blow by

gases are feed in to the inlet manifold of a running engine?

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

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

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

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

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

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

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

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

- A) SO_X
B) NO_X
C) CO
D) CO_2

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

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

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

- A) NO_X
B) CO_2
C) Hydro carbon
D) CO

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

- A) $\text{CO} + \text{H}_2 + \text{O}_2 \rightarrow \text{CO}_2 + \text{H}_2\text{O}$
B) $\text{C} + \text{CO}_2 \rightarrow 2\text{CO}$
C) $\text{NO}_X + \text{N}_2 \rightarrow \text{N}_2 + \text{CO}_2$
D) $\text{HC} + \text{H}_2 + \text{O}_2 \rightarrow \text{CO}_2 + \text{H}_2\text{O}$

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

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

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

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

19. 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

20. Where is connected the EVAP canister outlet?

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

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

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