

Duration: 30 Mins

Total Marks: 44

ID: ITISKILL9966K2

Student Name: _____ Roll No: _____

1. Which type of engine has common rail direct fuel injection system?

- A) Wankle engine B) Turbine engine
C) Steam engine D) Diesel engine

2. What is the function of heater plug?

- A) Warm up valves B) Warm up fuel pump
C) Warm up combustion chamber D) Warm up injector

3. Where the fuel feed pump of a diesel engine usually mounted?

- A) Fuel gallery B) Fuel injector
C) Fuel Filter D) Fuel injection pump

4. What is the purpose of baffles in the fuel tank?

- A) To minimize the slushing of fuel in the tank B) To strengthen the fuel tank
C) To make chambers in the fuel tank D) To make square and lengthy fuel tank

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

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

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

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

7. What is the defects of air lock in the fuel system?

- A) Hard running of the engine B) Continuous running of the engine
C) Smooth running of the engine D) erratic running of the engine

8. How many fuel chamber's are in HEUI?

- A) One B) Two
C) Three D) Four

9. Which is develop diesel pressure in the CRDI engine?

- A) Injection B) Fuel tank
C) ECM D) High pressure pump

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

- A) NO_x B) CO₂
C) SO_x D) CO

11. Which part connected in between inlet manifold and low pressure chamber of pneumatic governor?

- A) Stop lever cable B) Throttle lever
C) Accelerator cable D) Vacuum tube

12. When do we use the hand priming pump?

- A) Engine is at full speed B) Engine is at full load
C) Engine is at rest D) Engine is at idling speed

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

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

14. 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

15. Which electronic device controls the engine system?

- A) Ecm B) Switch
C) Fuse D) Regulator

16. Where is connected the EVAP canister outlet?

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

17. Where is fuel injector fitted?

- A) Crank case B) Cylinder head
C) Cylinder block D) Head cover

18. What does EPA refers to environment?

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

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

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

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

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

21. Which is the process of fuel bleeding system?

- A) Burn the air
- B) Pressurize the air
- C) Pump the air
- D) Remove the air

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

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

23. How the CRDI injectors pressure control valve operated?

- A) Manually
- B) Electronically
- C) Mechanically
- D) Hydraulic

24. Which governor has fitted the control rack with diaphragm?

- A) Centrifugal governor
- B) Mechanical governor
- C) Servo governor
- D) Pneumatic governor

25. Which fuel related with cetane number?

- A) Petrol
- B) Coal
- C) Diesel
- D) Kerosene

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

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

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

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

28. 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

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

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

30. How the quantity of fuel delivery vary in a running diesel engine?

- A) By injection
- B) By plunger
- C) By control rack
- D) By control sleeve

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

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

32. How much maximum fuel pressure developed in fuel injection pump?

- A) 200 to 300 Kgf/cm²
- B) 300 to 400 Kgf/cm²
- C) 400 to 700 Kgf/cm²
- D) 100 to 200 Kgf/cm²

33. Which type of vehicle emissions is measured in g/kwh??

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

34. Which controls the EGR valve in modern vehicle?

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

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

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

36. Where is the pressure discharge valve is fitted in CRDI fuel system?

- A) Fuel filter
- B) Injectors
- C) Common rail
- D) Fuel pump

37. Which valve is maintaining in the high pressure FIP pipe line?

- A) Plunger
- B) Barrel
- C) Control rack
- D) Delivery valve

38. Which is leak proof between nozzle and nozzle body?

- A) Easy starting
- B) Prevent dirty smoke
- C) Increase the power
- D) Mirror polishing finish in nozzle and body

39. Where is the delivery pipe of fuel feed pump connected?

- A) Fuel gallery
- B) Fuel tank
- C) Fuel filter
- D) Fuel injection pump

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

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

41. How much pressure develop the CRDI- diesel engine pump?

- A) 200 - 600 bar
- B) 600 - 1000 bar

C) 1000 - 1600 bar

D) 100 - 200 bar

42. Which action the spindle only move up and down in feed pump?

- A) Partial action
- B) Idling action
- C) pumping action
- D) Normal action

43. 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

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

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