

ITI Mechanic Diesel 1st Year Module 9 Intake and Exhaust system fuel system

(1). How much maximum pressure, develops by high pressure diesel pump in CRDI engine?

- (A) 500 bar
- (B) 800 bar
- (C) 2000 bar
- (D) 1600 bar

Correct Answer : C

(2). Name the drive of turbo charger.

- (A) Engine drive
- (B) Electric motor drive
- (C) Exhaust gas pressure
- (D) Compressed air

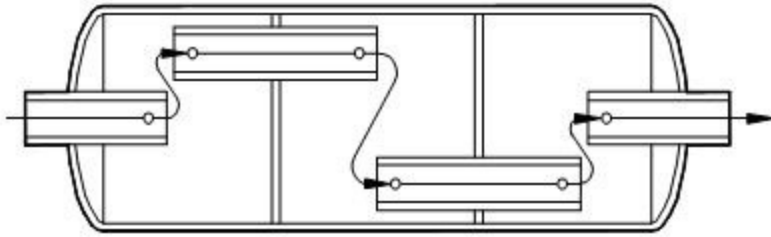
Correct Answer : C

(3). Name the drive of impeller type exhauster?

- ((A) Auxiliary drive shaft
- (B) Electric motor drive
- (C) Exhaust gas pressure
- (D) Compressed air

Correct Answer : A

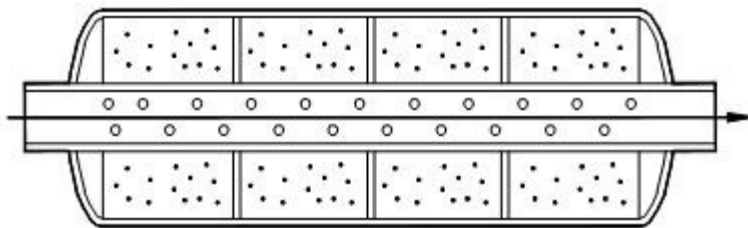
(4). Name the type of muffler.



- (A) Reverse flow muffler
- (B) Straight through muffler
- (C) Baffle type muffler
- (D) Electronic muffler

Correct Answer : A

(5). Name the type of muffler.



- (A) Reverse flow muffler
- (B) Straight through muffler
- (C) Baffle type muffler
- (D) Electronic muffler

Correct Answer : B

(6). What is the name of the governor in which the control rack connected with counter weight floating lever?

- (A) Mechanical governor
- (B) Pneumatic governor
- (C) Hydraulic governor
- (D) Servo governor

Correct Answer : A

(7). Which is control the minimum and maximum speed of the diesel engine?

- (A) FIP
- (B) Governor
- (C) Injector
- (D) Feed pump

Correct Answer : B

(8). What is the function of inter cooler?

- (A) Reduce the temperature of the inlet gas
- (B) Reduce density
- (C) Reduce horse power
- (D) Increase the temperature of the inlet gas

Correct Answer : A

(9). Which helps engine at high altitudes where the density of air is less?

- (A) Air cleaner
- (B) Vane type exhauster
- (C) Impeller type exhauster

(D) Turbo charger

Correct Answer : D

(10). Which part build up fuel injection pressure in CRDI fuel injector?

(A) Solenoid

(B) Regulator

(C) Common rail

(D) Fuel pump

Correct Answer : A

(11). In CRDI engine fuel system, where the excessive fuel return?

(A) Reside in the rail itself

(B) Return to high pressure pump

(C) Return to the fuel tank

(D) Return to fuel filter

Correct Answer : C

(12). Which type of fuel system is best suited for less fuel consumption, more power and reduce the exhaust emission?

(A) Inline pump system

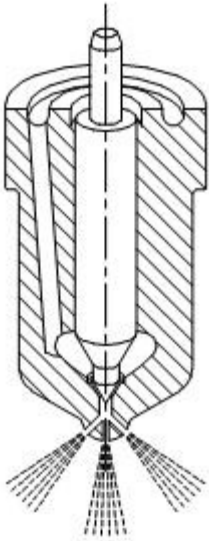
(B) Rotary pump system

(C) Distributor pump system

(D) CRDI system

Correct Answer : D

(13). What is the name of nozzle?



- (A) Single hole nozzle
- (B) Multi hole nozzle
- (C) Pintle nozzle
- (D) Pintaux nozzle

Correct Answer : B

(14). Which electronic device controls the engine system?

- (A) Regulator
- (B) ECM
- (C) Fuse
- (D) Switch

Correct Answer : B

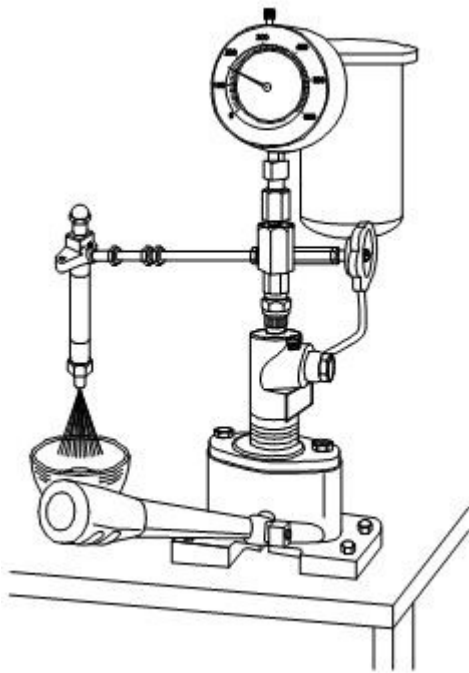
(15). What is the effect of detonation occurs in diesel engine?

- (A) Knocking sound in engine

- (B) More engine power
- (C) High engine speed
- (D) Suddenly stop the engine

Correct Answer : A

(16). What is the name of equipment?



- (A) FIP tester
- (B) Injector tester
- (C) Pump tester
- (D) Compression tester

Correct Answer : B

(17). What material is used for manufacturing exhaust manifold?

- (A) Cast iron

(B) Aluminium alloy

(C) Copper

(D) Steel

Correct Answer : A

(18). How much time taken to give signals to ECM after ignition switch on?

(A) One second

(B) Two second

(C) Three second

(D) Four second

Correct Answer : B

(19). What is the function of heater plug?

(A) Warm up fuel pump

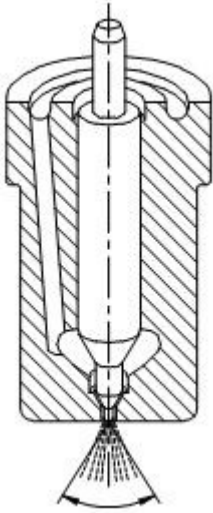
(B) Warm up combustion chamber

(C) Warm up injector

(D) Warm up valves

Correct Answer : B

(20). What is the name of nozzle?



- (A) Single hole nozzle
- (B) Multi hole nozzle
- (C) Delay nozzle
- (D) Pintle nozzle

Correct Answer : D

(21). Which fuel related with cetane number?

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

Correct Answer : B

(22). What is the purpose of glow plug in pre-combustion chamber in diesel engine?

- (A) Completing combustion

- (B) Delaying combustion
- (C) Advance combustion
- (D) Initiating combustion

Correct Answer : D

(23). Which type of muffler is fitted with sensors, microphone and speakers?

- (A) Baffle type muffler
- (B) Reverse flow type muffler
- (C) Electronics type muffler
- (D) Straight through muffler

Correct Answer : C

(24). Why baffles are provided in the fuel tank?

- (A) Minimize the slashing 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

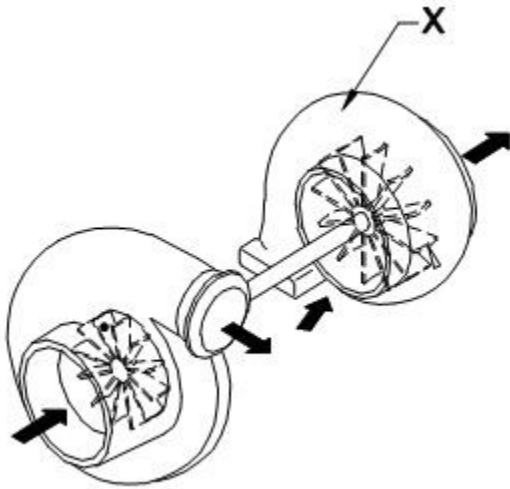
Correct Answer : A

(25). What is the material generally used for manufacturing inlet manifold?

- (A) Aluminium alloy
- (B) Copper
- (C) Steel
- (D) Plastic

Correct Answer : A

(26). Name the part marked as 'x'.



- (A) Turbine housing
- (B) Compressor housing
- (C) Turbine wheel
- (D) Compressor wheel

Correct Answer : A

(27). Where the diesel fuel is obtained?

- (A) Crude oil
- (B) Vegetable oil
- (C) Animal oil
- (D) Synthetic oil

Correct Answer : A

(28). Which fuel pipe line is provided between fuel tank and injectors?

- (A) Suction pipe
- (B) Pressure pipe
- (C) Vacuum pipe
- (D) Over flow pipe

Correct Answer : D

(29). How the CRDI injectors pressure control valve operated?

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

Correct Answer : B

(30). Where the turbo charger compressor housing outlet connected?

- (A) Connected to air cleaner
- (B) Connected to inlet-manifold
- (C) Connected to exhaust - manifold
- (D) Connected to oil filter

Correct Answer : B

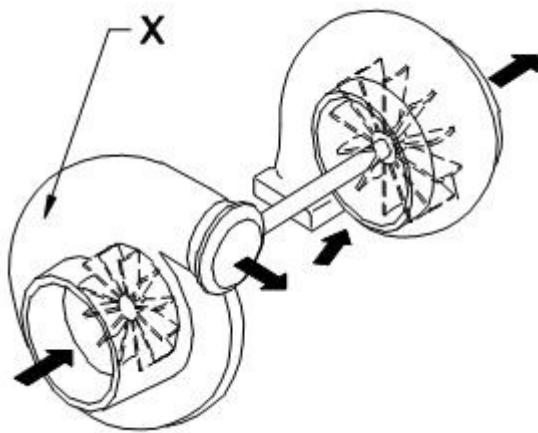
(31). Where is the pressure discharge valve fitted in CRDI fuel system?

- (A) Common rail
- (B) Fuel pump
- (C) Injectors

(D) Fuel filter

Correct Answer : A

(32). Name the part marked as 'x'.



(A) Turbine unit

(B) Compressor unit

(C) Exhauster unit

(D) Charger unit

Correct Answer : B

(33). Where is turbocharger mounted?

(A) Exhaust manifold

(B) Inlet manifold

(C) Air cleaner

(D) Cylinder head

Correct Answer : A

(34). How the quantity of fuel delivery vary in running diesel engine?

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

Correct Answer : C

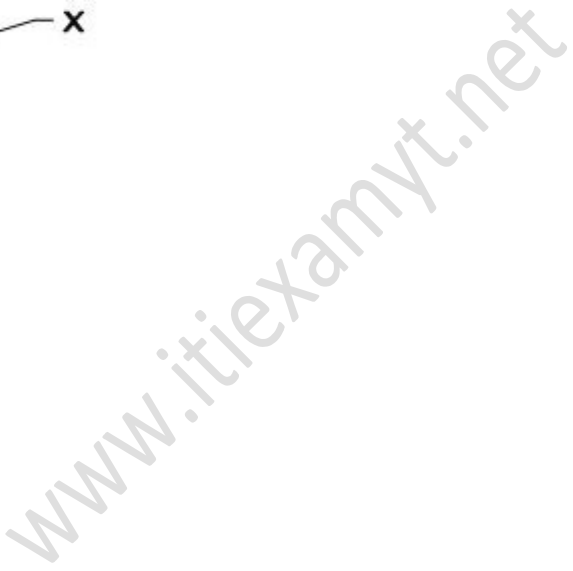
(35). How the pressure, is maintaining in the high pressure pipe line of FIP?

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

Correct Answer : B

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x



- x

x

(38). What type of filter element is used in dry type air cleaner?

- (A) Paper element
- (B) Cloth element
- (C) Wire mesh element
- (D) Strainer element

Correct Answer : A

(39). Which type of muffler produces anti noise without restricting the exhaust flow in a silencer?

- (A) Baffle type
- (B) Electronic type
- (C) Resonance type
- (D) Reverse flow type

Correct Answer : B

(40). Which is developed high diesel pressure in the CRDI Fuel System?

- (A) ECM
- (B) Common rail
- (C) Fuel tank
- (D) High pressure pump

Correct Answer : D

(41). How much maximum fuel pressure developed in fuel injection pump?

- (A) 100 to 200 Kgf/cm²

(B) 200 to 300 Kgf/cm²

(C) 300 to 400 Kgf/cm²

(D) 400 to 700 Kgf/cm²

Correct Answer : D

(42). Which type of pump ensures in built and uniform delivery to all injectors in diesel engine?

(A) Jerk type pump

(B) In line pump

(C) Rotary type pump

(D) Servo type pump

Correct Answer : C

(43). What is the expansion of HEUI?

(A) Hydraulically Actuated Electronically Controlled Unit Injector

(B) Hydraulically Actuated Electrically Controlled Unit Injector

(C) Hydro-electric Controlled Unit Injector

(D) Hydraulic Effective Controlled Unit Injector

Correct Answer : A

(44). Which electronic unit gives signal to operate IAC valve?

(A) ECM

(B) EDU

(C) Solenoid

(D) SCV

Correct Answer : A

(45). Which feed system reduces above 50% unburnt hydro carbon?

- (A) In line fuel injection system
- (B) Distributor fuel injection system
- (C) Electronic control system
- (D) Air blast fuel injection system

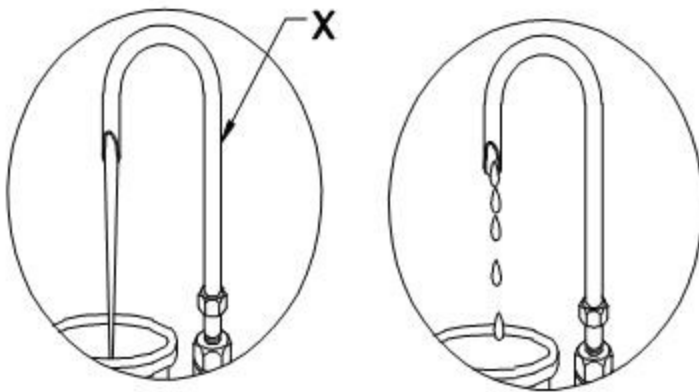
Correct Answer : C

(46). How many fuel chamber's are in HEUI?

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

Correct Answer : B

(47). What is the name of the part marked as 'x'?



- (A) Swan neck pipe

- (B) Diesel pipe
- (C) 'U' band pipe
- (D) Leakage pipe

Correct Answer : A

(48). What is the purpose over flow valve in fuel filters

- (A) To supply more fuel to filter
- (B) To send back excess diesel to fuel tank
- (C) To supply clean diesel
- (D) To take the leaking fuel

Correct Answer : B

(49). Which fuel system develop the high diesel pressure by hydraulic energy?

- (A) Inline FIP
- (B) Distributor FIP
- (C) CRDI fuel system
- (D) HEUI fuel system

Correct Answer : D

(50). Which type of fuel system has high pressure oil pump in diesel engine?

- (A) Inline FIP
- (B) Rotary FIP
- (C) CRDI fuel system
- (D) HEUI fuel system

Correct Answer : C

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