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RRB ALP 2018 CBT-2 Mechanic Diesel

Assistant Loco Pilot & Technicians · CEN 01/2018 · CBT-2 (21-23 Jan 2019) · Trade: Mechanic Diesel · Part B (Mechanic Diesel) · Question Paper

English

All 3 Shifts (Sets) · Part B (Mechanic Diesel) Section · Official Answer Key

About this Compilation

This booklet contains all **3 shift papers** of the **RRB ALP 2018 CBT-2 Mechanic Diesel** examination in **English** (**Part B (Mechanic Diesel)** section only), with the correct option marked as per the official answer key.

✓ Correct option (highlighted green)

Source. Original images of the official RRB response sheets (no retyping). Paper = Part A 100 (Maths, Reasoning, Basic Science & Engineering, Current Affairs) + Part B 75 (trade).

Not in this edition (less than half saved in English; see the Hindi edition): 21 Jan 12:30 PM; 23 Jan 4:30 PM; 23 Jan 8:30 AM.

How to use

- Use the **Index** page to jump directly to any set (clickable).
- Questions appear section by section in the order of the paper, numbered 1 onward.
- Diagram and wide-table questions appear at full width at the end of their section.
- The correct answer is highlighted in green with a tick.

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Index — All Sets (click to open)

Set 1 — 21 Jan 2019, 8:30 AM - 11:00 AM

Set 2 — 21 Jan 2019, 4:30 PM - 7:00 PM

Set 3 — 23 Jan 2019, 12:30 PM - 3:00 PM

RRB ALP 2018 CBT-2 Mechanic Diesel Set 1 · 21 Jan 2019 · 8:30 AM - 11:00 AM · English

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Part B (Mechanic Diesel) — 75 Questions • Answer Key

Q1 Part B (Mechanic Diesel)

A Feeler gauge is used to measure which of the following?

A. Thickness
B. Width
C. Small gaps & clearances ✓
D. Diameter

Q2 Part B (Mechanic Diesel)

A fuse in an electrical circuit 'blows' as a result of a high:

A. voltage caused by an open circuit
B. current flow caused by a short circuit ✓
C. voltage caused by a short circuit
D. current flow caused by an open circuit

Q3 Part B (Mechanic Diesel)

Which of the following devices is used to give the specified torque value for bolt and nuts?

A. Ring spanner
B. Pipe wrench
C. Box spanner
D. Torque wrench ✓

Q4 Part B (Mechanic Diesel)

Which conductor is used in underground cables?

A. Aluminium
B. Tin
C. Lead
D. Copper ✓

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Q5 Part B (Mechanic Diesel)

What among the following is the firing order of a four - cylinder engine?

A. 1243

B. 1234

C. 1342 ✓

D. 1423

Q6 Part B (Mechanic Diesel)

Where among the following is the camshaft in an engine always mounted?

A. Vertical to the crankshaft

B. Incline to the crankshaft

C. Perpendicular to the crankshaft

D. Parallel to the crankshaft ✓

Q7 Part B (Mechanic Diesel)

What should be done if the alternator is producing low current due to shorting of the diode?

A. Tighten the belt

B. Change the voltage regulator

C. Repair the wiring

D. Change the diode ✓

Q8 Part B (Mechanic Diesel)

The exhaust manifold is connected to the cylinder head of the cylinder block by which of the following?

A. Asbestos gasket ✓

B. Plastic tube

C. Rubber seal

D. Iron pipe

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Q9 Part B (Mechanic Diesel)

Which of the following is NOT a part of a gas turbine?

A. Piston ✓

B. Compressor

C. Combustion chamber

D. Turbine

Q10 Part B (Mechanic Diesel)

An air lock in a fuel feed system is removed by using which of the following?

A. Priming pump ✓

B. Electrical fuel pump

C. Water pump

D. Oil pump

Q11 Part B (Mechanic Diesel)

What among the following is the maximum voltage for a fully-charged battery in two-wheelers?

A. 14. 4 V ✓

B. 14 V

C. 12. 4 V

D. 12 V

Q12 Part B (Mechanic Diesel)

The inlet valve is made up of which of the following?

A. High carbon steel

B. Nickel - chromium steel ✓

C. Silicon - chromium steel

D. Aluminium alloy

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Q13 Part B (Mechanic Diesel)

A diode conducts current in:

- A. one direction ✓
- B. three directions
- C. two directions
- D. no direction

Q14 Part B (Mechanic Diesel)

Which of the following measuring instruments is used to measure the distance travelled by the vehicle?

- A. Odometer ✓
- B. Rotameter
- C. Tachometer
- D. Speedometer

Q15 Part B (Mechanic Diesel)

Intercooler is used in a vehicle with:

- A. Clutch
- B. Alternator
- C. Radiator
- D. Turbocharger ✓

Q16 Part B (Mechanic Diesel)

Which of the following term is related to clutch?

- A. Pressure plate ✓
- B. Surface plate
- C. Transfer case
- D. Universal joint

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Q17 Part B (Mechanic Diesel)

The high fuel consumption of a diesel engine may be due to a / an:

- A. leakage of fuel in the fuel injection pump ✓
- B. defect in the cooling system
- C. defect in the lubrication system
- D. air leakage in the intake manifold

Q18 Part B (Mechanic Diesel)

A ballast resistor is used in which of the following systems?

- A. Cooling system
- B. Fuel system
- C. Lubrication system
- D. Ignition system ✓

Q19 Part B (Mechanic Diesel)

There are _____ types of Gas Turbines.

- A. One
- B. Two
- C. Three
- D. Four ✓

Q20 Part B (Mechanic Diesel)

Flammable liquids comes under which class of fire?

- A. Class C
- B. Class B ✓
- C. Class D
- D. Class A

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Q21 Part B (Mechanic Diesel)

Hacksaw blades with fine-pitched teeth are more effective on which of the following?

A. Soft metal

B. Thick metal

C. Thin metal ✓

D. Non - metal

Q22 Part B (Mechanic Diesel)

Piston rings are made of which of the following?

A. Copper

B. Steel

C. Aluminium

D. Cast iron ✓

Q23 Part B (Mechanic Diesel)

The specification of a welding machine is determined by which of the following?

A. Closed circuit voltage

B. Output ampere ✓

C. Open circuit voltage

D. Input ampere

Q24 Part B (Mechanic Diesel)

Which oil pump is used in stationary diesel engines?

A. Rotary type

B. Plunger type ✓

C. Gear type

D. Vane type

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Q25 Part B (Mechanic Diesel)

A pressure cap is used in which of the following systems?

A. Fuel systems

B. Air conditioning systems

C. Cooling systems ✓

D. Lubrication systems

Q26 Part B (Mechanic Diesel)

What is the main function of lubricant oil?

A. To make a sludge

B. To clean

C. To reduce the temperature

D. To reduce the friction ✓

Q27 Part B (Mechanic Diesel)

Thermocouple made up of:

A. Nickel - Chromium ✓

B. Ferrous - aluminum

C. Tungsten - Copper

D. Ferrous - Chromium

Q28 Part B (Mechanic Diesel)

Turbochargers are operated by which of the following?

A. Camshaft

B. Crankshaft

C. Exhaust gases ✓

D. Electrical motor

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Q29 Part B (Mechanic Diesel)

Which of the following engine component responsible of valve operation?

A. Connecting rod

B. Camshaft ✓

C. Piston

D. Crankshaft

Q30 Part B (Mechanic Diesel)

A Vernier depth gauge is used to measure the:

A. internal diameter

B. pitch diameter

C. depth of a blind hole ✓

D. external diameter

Q31 Part B (Mechanic Diesel)

Acetylene gas is dissolved in _____ for safe storage and usage.

A. mercury

B. water

C. carbon dioxide

D. acetone ✓

Q32 Part B (Mechanic Diesel)

The connecting rod connects the crankshaft and the _____.

A. Cylinder block

B. Cylinder head

C. Piston ✓

D. Camshaft

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Q33 Part B (Mechanic Diesel)

Which fire extinguisher is suitable for a live electrical fire?

A. Water filled (FE)

B. Halon (FE)

C. Foam (FE) ✓

D. Liquified chemical

Q34 Part B (Mechanic Diesel)

A four - stroke engine produces one power stroke in _____ revolutions of the crankshaft.

A. 4

B. 2 ✓

C. 8

D. 6

Q35 Part B (Mechanic Diesel)

Which of the following is used as an antifreeze chemical in coolants?

A. Sulphur

B. Kerosene

C. Ethylene glycol ✓

D. Lead

Q36 Part B (Mechanic Diesel)

What is the negative terminal of a dry cell battery made of?

A. Zinc ✓

B. Aluminium

C. Copper

D. Steel

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Q37 Part B (Mechanic Diesel)

The taper shank drills are held on the machine by means of:

A. vice

B. drift

C. chucks

D. sleeves ✓

Q38 Part B (Mechanic Diesel)

Jerk pumps belong to the _____ category.

A. Movable

B. Stationary ✓

C. Slide

D. Bend

Q39 Part B (Mechanic Diesel)

Water sludge is formed in the crankcase due to the mixing of which of the following?

A. Fuel and oil

B. Water and air

C. Water and oil ✓

D. Water and fuel

Q40 Part B (Mechanic Diesel)

A commutator is made of which of the following?

A. Copper segments ✓

B. Aluminium segments

C. Brass segments

D. Iron segments

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Q41 Part B (Mechanic Diesel)

The size of the inlet valve is:

A. Half of the exhaust valve

B. Bigger than the exhaust valve ✓

C. Smaller than the exhaust valve

D. One - fourth of the exhaust valve

Q42 Part B (Mechanic Diesel)

Which chisel is used for cutting key - ways?

A. Round nose chisel

B. Flat chisel

C. Diamond point chisel

D. Cross - cut chisel ✓

Q43 Part B (Mechanic Diesel)

Which component of an engine lubricating system indicates the level of oil?

A. Oil pump

B. Dipstick ✓

C. Oil cooling device

D. Oil hose

Q44 Part B (Mechanic Diesel)

Pre - combustion chambers are used in which of the following?

A. Multi point fuel injection (MPFI) engine

B. Direct injection (DI) engine

C. Indirect injection (IDI) engine ✓

D. Common rail direct injection (CRDi) engine

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Q45 Part B (Mechanic Diesel)

What is the full form of EDC?

A. Electronic direct control

B. Electronic diesel control ✓

C. Electric diesel control

D. Electric direct control

Q46 Part B (Mechanic Diesel)

Which of the following is an engine coolant property

A. Low thermal conductivity

B. Low freezing point ✓

C. Low thermal stability

D. Low thermal specific heat

Q47 Part B (Mechanic Diesel)

Supercharging in marine engines is used for which of the following purposes?

A. To decrease the engine power output

B. To increase the fuel pressure

C. To decrease the fuel pressure

D. To increase the engine power output ✓

Q48 Part B (Mechanic Diesel)

Dynamic oil seals are used at:

A. High - pressure oil supply ✓

B. High - pressure fuel supply

C. Low - pressure fuel supply

D. Low - pressure oil supply

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Q49 Part B (Mechanic Diesel)

A self-starter is also called as a

A. Voltage regulator

B. Cranking motor ✓

C. Self - relay

D. Cut - out

Q50 Part B (Mechanic Diesel)

The cylinder head is made of which of the following?

A. High - carbon steel

B. Brass

C. Aluminium alloy ✓

D. Copper

Q51 Part B (Mechanic Diesel)

Which one of the following locking devices is used to lock the air cleaner?

A. Cotter pin

B. Split pin

C. Circlip

D. Wingnut ✓

Q52 Part B (Mechanic Diesel)

Detonation leads to which of the following?

A. Knocking sound ✓

B. Stopping of the engine

C. Oil leakage

D. Late start

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Q53 Part B (Mechanic Diesel)

What are the Indian vehicular emission standard termed as?

- A. Bharat Stage Emission Standard ✓
- B. Japan Standard
- C. European Standard
- D. American Standard

Q54 Part B (Mechanic Diesel)

An Exhaust Gas Recirculation (EGR) valve is used in which of the following?

- A. Cooling system
- B. Fuel system
- C. Lubrication system
- D. Turbocharger ✓

Q55 Part B (Mechanic Diesel)

The pressure of the lubricant oil inside an engine is measured by which of the following?

- A. Main bearing clearance
- B. Bypass valve
- C. Pressure relief valve
- D. Pressure gauge ✓

Q56 Part B (Mechanic Diesel)

Following components is not part of Spark Ignition (SI) engine:

- A. Inlet and exhaust valve
- B. Gudgeon pin
- C. Glow plug ✓
- D. Intake manifold

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Q57 Part B (Mechanic Diesel)

Pistons are made up of which of the following materials?

A. Steel

B. Brass

C. Cast iron

D. Aluminium alloy ✓

Q58 Part B (Mechanic Diesel)

A tab washer is used for:

A. Locking the nuts

B. Fastening vibration work

C. Avoiding vibration ✓

D. Self - locking

Q59 Part B (Mechanic Diesel)

Which one of the following instruments is also called as a milometer?

A. Tachometer

B. Speedometer

C. Rotometer

D. Odometer ✓

Q60 Part B (Mechanic Diesel)

Following component is part of Gas turbine:

A. Compressor ✓

B. Axle

C. condenser

D. Pitman arm

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Q61 Part B (Mechanic Diesel)

For car washing, water pressure normally should be:

- A. 100 – 110 bar ✓
- B. 50 – 60 bar
- C. 70 – 80 bar
- D. 120 – 140 bar

Q62 Part B (Mechanic Diesel)

A two - stroke engine has ports in which of the following?

- A. Crankcase
- B. Piston rings
- C. Cylinder walls ✓
- D. Piston

Q63 Part B (Mechanic Diesel)

What is the shape of the cross section of the connecting rods?

- A. I - shaped ✓
- B. J - shaped
- C. C - shaped
- D. L - shaped

Q64 Part B (Mechanic Diesel)

Which filter is used in the intake manifold of an engine?

- A. Water
- B. Oil
- C. Air ✓
- D. Fuel

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Q65 Part B (Mechanic Diesel)

What is the function of a clutch?

A. Engage and disengage the power between the differential and axle.

B. Engage and disengage the power between the engine and gearbox. ✓

C. Engage and disengage the power between the gearbox and propeller shaft.

D. Engage and disengage the power between the gearbox and the driveshaft.

Q66 Part B (Mechanic Diesel)

What is the purpose of a thermostat valve?

A. It allows the oil to pump.

B. It allows the coolant to flow through the upper hose to the radiator.

C. It does not allow the coolant to flow through the upper hose to the radiator till the coolant reaches 90 ° C. ✓

D. It does not allow the coolant to flow through the upper hose to the radiator till the coolant reaches 30 ° C.

Q67 Part B (Mechanic Diesel)

A high oil consumption is due to which of the following?

A. Poor cooling system

B. Defect in air intake system

C. Worn out of piston rings ✓

D. Less compression pressure

Q68 Part B (Mechanic Diesel)

Marine engines are started with the help of which of the following?

A. Handle

B. Alternator

C. Compressed air ✓

D. Starter motor

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Q69 Part B (Mechanic Diesel)

Term 'lobes' is related to following engine components:

A. Valve

B. Piston

C. Camshaft ✓

D. Connecting rod

Q70 Part B (Mechanic Diesel)

Vehicular emissions are measured in which of the following units?

A. g / km ✓

B. Kg / km

C. N / m

D. Kg / cm^2

Q71 Part B (Mechanic Diesel)

Which of the following is the cetane number of diesel in India?

A. 52 ✓

B. 20

C. 75

D. 30

Q72 Part B (Mechanic Diesel)

Which one of these terms is NOT related to a catalytic converter?

A. Stainless steel housing

B. Palladium coating

C. Lambda probe

D. Inlet manifold ✓

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Q73 Part B (Mechanic Diesel)

What is the correlation between the clutch and the flywheel?

A. Drives the camshaft

B. Support timing gears

C. Control crankshaft end play

D. Serve as mounting and frictional surface for clutch assembly ✓

Q74 Part B (Mechanic Diesel)

Which of the following switch used in starting system?

A. Solenoid switch ✓

B. Float switch

C. Inertia switch

D. Toggle switch

Q75 Part B (Mechanic Diesel)

What is the full form of VVT?

A. Variable valve timing ✓

B. Vanadium valve technology

C. Vehicle valve technology

D. Vehicle ventilation technology

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Part B (Mechanic Diesel) — 75 Questions • Answer Key

Q1 Part B (Mechanic Diesel)

Metals come under which class of fire?

A. Class A

B. Class D ✓

C. Class C

D. Class B

Q2 Part B (Mechanic Diesel)

The alternator is usually driven by _____.

A. a belt drive ✓

B. a gear drive

C. a flat belt drive

D. a chain drive

Q3 Part B (Mechanic Diesel)

Which oil pump is used in stationary diesel engines?

A. Vane type

B. Gear type

C. Rotary type ✓

D. Plunger type

Q4 Part B (Mechanic Diesel)

A 4-stroke crankshaft rotates _____ to produce the power stroke.

A. one revolution

B. half a revolution

C. $1\frac{1}{2}$ revolutions

D. 2 revolutions ✓

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Q5 Part B (Mechanic Diesel)

BA threads are specified by _____.

A. the number from 20 to 100

B. the series from A to C

C. the series from K to M

D. the number from 0 to 12 ✓

Q6 Part B (Mechanic Diesel)

Which of the following is the reason for the turbine rotating in a turbo charger?

A. Exit gases from muffler

B. Exit gases from tail pipe

C. Exhaust gas from the exhaust manifold ✓

D. Exit gases from catalytic converter

Q7 Part B (Mechanic Diesel)

The mean effective pressure of each cylinder in a diesel engine, has _____.

A. 8 to10 bar ✓

B. 25 to 35 bar

C. 10 to 20 bar

D. 10 to 15 bar

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Q8 Part B (Mechanic Diesel)

Identify the tool in the given Figure.



A. Screw driver

B. Torque wrench

C. Ring spanner ✓

D. Scale

Q9 Part B (Mechanic Diesel)

The firing order of a 4 cylinder engine is _____.

A. 1, 2, 4, 3

B. 1, 4, 2, 3

C. 1, 3, 4, 2 ✓

D. 1, 2, 3, 4

Q10 Part B (Mechanic Diesel)

The capacity of an automobile battery depends on the _____.

A. voltage

B. temperature

C. battery size

D. number of plates and sizes ✓

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Q11 Part B (Mechanic Diesel)

What is name of middle part of connecting rod which connect the head and big end?

A. Tank

B. Mack

C. Shank ✓

D. Neck

Q12 Part B (Mechanic Diesel)

_____ is a device used to reduce the exhaust noise.

A. Tail pipe

B. Exhaust manifold big size

C. Inlet manifold smaller size

D. Muffler ✓

Q13 Part B (Mechanic Diesel)

For balancing single cylinder engine counter weight is built into the _____.

A. crankshaft ✓

B. connecting rod

C. flywheel

D. piston

Q14 Part B (Mechanic Diesel)

In an engine, if the cooling system fails, which one of the following problems will occur?

A. Flywheel seizes

B. Crank shaft seizes

C. Clutch plate seizes

D. Piston seizes ✓

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Q15 Part B (Mechanic Diesel)

Radial piston engines are used for _____.

A. water boats engines

B. submarine engines ✓

C. racing cars

D. steam engines

Q16 Part B (Mechanic Diesel)

Which of the following is the cause for the problem in engine pickup?

A. Less fuel in the fuel tank

B. Lack of lubrication

C. Worn out clutch ✓

D. Lack of cooling

Q17 Part B (Mechanic Diesel)

Which one of the following coolant is used for reaming aluminium work piece?

A. Kerosene ✓

B. Lard oil

C. Water

D. Air pressure

Q18 Part B (Mechanic Diesel)

Clutch is located between the gear box and the _____.

A. Differential

B. Propeller shaft

C. Rear axle

D. Engine ✓

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Q19 Part B (Mechanic Diesel)

_____ is placed between an engine and gear box.

- A. Clutch ✓
- B. Propeller shaft
- C. Drive belt
- D. Fan

Q20 Part B (Mechanic Diesel)

Shell bearings are made up of _____.

- A. copper
- B. lead
- C. tin
- D. white metal ✓

Q21 Part B (Mechanic Diesel)

Which type of chisel is used for cutting curved grooves?

- A. Cross-cut chisel
- B. Diamond point chisel
- C. Half round nose chisel ✓
- D. Flat chisel

Q22 Part B (Mechanic Diesel)

What is the cause for low power of an engine?

- A. High Compression pressure in the cylinder
- B. Lack of cooling system
- C. Low Compression pressure in the cylinder ✓
- D. Lack of lubrication system

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Q23 Part B (Mechanic Diesel)

An inline fuel injection pump is driven by a _____.

A. crankshaft ✓

B. connecting rod

C. camshaft

D. piston

Q24 Part B (Mechanic Diesel)

An air filter used in a diesel engine gives _____.

A. smoked air

B. clean and filtered air ✓

C. dust air

D. unfiltered air

Q25 Part B (Mechanic Diesel)

In engine water cooling system, which is used as an antifreeze coolant?

A. Sulfuric acid

B. Ethylene glycol ✓

C. Phenoxide

D. Benzene

Q26 Part B (Mechanic Diesel)

A turbo charger is used in a diesel engine to _____.

A. increase volumetric efficiency ✓

B. reduce engine noise

C. increase fuel efficiency

D. increase compression pressure

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Q27 Part B (Mechanic Diesel)

Which instrument is used to measure the battery specific gravity of electrolyte in a battery?

A. Voltmeter

B. Hydrometer ✓

C. AMP meter

D. Thermometer

Q28 Part B (Mechanic Diesel)

Under high temperature and pressure combustion, nitrogen combines with oxygen to produce

A. NO_3

B. NO_x ✓

C. NO

D. NO_2

Q29 Part B (Mechanic Diesel)

Which acid is used in automobile batteries?

A. Nitric acid

B. Hydrochloric acid

C. Citric acid

D. Sulphuric acid ✓

Q30 Part B (Mechanic Diesel)

The diesel engine will work under a _____.

A. Constant pressure cycle ✓

B. Carnot cycle

C. Constant volume cycle

D. Rankine cycle

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Q31 Part B (Mechanic Diesel)

Exhaust gas leakage in the water cooling system is likely due to _____

A. radiator damage

B. water pump defect

C. manifold gasket defect

D. cylinder head gasket damage ✓

Q32 Part B (Mechanic Diesel)

Clutch is the part of:

A. Suspension system

B. Exhaust system

C. Lubrication system

D. Transmission system ✓

Q33 Part B (Mechanic Diesel)

In a latest 4-stroke engine, each cylinder has _____.

A. 1 valve

B. 2 valves

C. 4 valves ✓

D. 3 valves

Q34 Part B (Mechanic Diesel)

The order in which the cylinders must be burned is called ____.

A. firing line

B. fire wall

C. firing order ✓

D. power stroke

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Q35 Part B (Mechanic Diesel)

Which of the following is type of cylinder liner?

A. Tough and soft liner

B. Sharp and rough edge liner

C. Metal and nonmetal liner

D. Dry and wet liner ✓

Q36 Part B (Mechanic Diesel)

The life of the cylinder block is increased by using a _____.

A. flywheel

B. valve

C. liner ✓

D. rocker arm

Q37 Part B (Mechanic Diesel)

Free pedal play in car clutches is about:

A. 3 mm ✓

B. 60 mm

C. 100 mm

D. 30 mm

Q38 Part B (Mechanic Diesel)

Loss of engine compression pressure can result in _____.

A. wrong timing

B. valve timing defect

C. worn out rings/bore ✓

D. loose fan belt

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Q39 Part B (Mechanic Diesel)

The crankcase is made of _____.

A. steel

B. cast iron ✓

C. tin

D. brass

Q40 Part B (Mechanic Diesel)

Diesel injector is tested by _____.

A. a pressure testing gauge ✓

B. a dial gauge

C. an air pressure gauge

D. a compression gauge

Q41 Part B (Mechanic Diesel)

What is meant by ABS?

A. Avoid brake system

B. Automatic brake system

C. Anti-lock braking system ✓

D. Actual brake system

Q42 Part B (Mechanic Diesel)

The clearance angle of a drill is between _____.

A. 8° *to* 12° ✓

B. 12° *to* 20°

C. 15° *to* 20°

D. 3° *to* 5°

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Q43 Part B (Mechanic Diesel)

_____ is the gap between the inside diameter of an installed bearing and the outside diameter of the crankshaft.

A. Tappet clearance

B. Oil clearance ✓

C. Valve clearance

D. Part clearance

Q44 Part B (Mechanic Diesel)

The difference between the ring width and the width of the piston ring groove is called _____.

A. ring back clearance

B. piston ring gap

C. ring side clearance ✓

D. piston clearance

Q45 Part B (Mechanic Diesel)

Which thermostat is mostly used in modern automobile?

A. Bi-metal type

B. Wax type ✓

C. Bellow type

D. Plunger type

Q46 Part B (Mechanic Diesel)

Wing nuts are used in _____.

A. an air cleaner ✓

B. a head cover

C. a fuel filter

D. an oil filter

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Q47 Part B (Mechanic Diesel)

What is the correct order fuel feed system in a conventional diesel engine?

A. Fuel tank, Fuel injection pump, fuel filter, feed pump, injector, engine

B. Fuel tank, fuel filter, fuel injection pump, feed pump, injector, engine

C. Fuel tank, fuel injector, feed pump, fuel injection pump, fuel filter, engine

D. Fuel tank, feed pump, fuel filter, fuel injection pump, injector, engine ✓

Q48 Part B (Mechanic Diesel)

In an engine, a throttle position sensor is placed at _____.

A. crankshaft

B. camshaft

C. inlet manifold ✓

D. exhaust manifold

Q49 Part B (Mechanic Diesel)

How many gear boxes are used in a front wheel drive?

A. No gear box

B. Two

C. One ✓

D. Depends upon the engine design

Q50 Part B (Mechanic Diesel)

Cylinder liner provide

A. Sliding surface for the piston ring

B. Strength for piston

C. Support for valve

D. Support for cylinder block ✓

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Q51 Part B (Mechanic Diesel)

In a 2 stroke engine, what happens during the downward stroke?

A. Fresh charge enters into crankcase, exhaust gases will exhaust.

B. Charge enters from crankcase to combustion chamber, exhaust gases will exhaust.

C. Charge enters to combustion chamber, fresh charge enters into crankcase. ✓

D. Fresh charge enters into crankcase, charge compresses in combustion chamber.

Q52 Part B (Mechanic Diesel)

Opening & closing of valves in relation to piston movement is called _____

A. Valve timing ✓

B. Valve lapping

C. Valve replacing

D. Valve grinding

Q53 Part B (Mechanic Diesel)

The sulphur content in a diesel engine fuel is _____.

A. <1% ✓

B. 0%

C. 0.5%

D. 0.75%

Q54 Part B (Mechanic Diesel)

The fuel feed pump pressure is ____.

A. 5 bar ✓

B. 2 bar

C. 9 bar

D. 10 to 15 bar

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Q55 Part B (Mechanic Diesel)

Connecting rod small end bush are made up of _____.

A. steel

B. bronze ✓

C. aluminum

D. copper

Q56 Part B (Mechanic Diesel)

Piston rings are made up of _____.

A. bronze

B. cast iron ✓

C. copper

D. aluminum alloy steel

Q57 Part B (Mechanic Diesel)

During compression stroke in 4 stroke cycle engine _____

A. Exhaust opens & Inlet closed

B. Inlet opens, exhaust close

C. Both valve closed ✓

D. Both valve opens

Q58 Part B (Mechanic Diesel)

Piston ring end gap is measured by a _____.

A. screw gauge

B. thread gauge

C. ring gauge

D. feeler gauge ✓

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Q59 Part B (Mechanic Diesel)

Engine compression pressure can be measured by _____.

A. an oil pressure gauge

B. an air pressure gauge

C. a vacuum pressure gauge

D. a compression pressure gauge ✓

Q60 Part B (Mechanic Diesel)

What is the function of a catalytic converter?

A. Reduces the noise and the pressure of exhaust gases.

B. Increases the intake air pressure.

C. Converts harmful gases to useful gases. ✓

D. Filters the air.

Q61 Part B (Mechanic Diesel)

What is commonly used in a diesel engine for anti-freeze solution?

A. Ammonia chloride

B. Liquified gas

C. Glycol and glycerin ✓

D. Carbon disulfide

Q62 Part B (Mechanic Diesel)

Firing order of a 6 cylinder engine is _____.

A. 1, 4, 3, 5, 2, 6

B. 1, 5, 3, 6, 2, 4 ✓

C. 1, 3, 2, 4, 6, 5

D. 1, 4, 5, 6, 3, 2

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Q63 Part B (Mechanic Diesel)

In a diesel engine, the governor's function is to control the _____.

A. temperature

B. fuel ✓

C. pressure

D. speed

Q64 Part B (Mechanic Diesel)

Where temperature gauge is placed in vehicle to show the temperature of engine's coolant or water.

A. Engine

B. Steering

C. Dashboard ✓

D. Radiator

Q65 Part B (Mechanic Diesel)

Which is the process of removing metal from a work piece in the form of tiny chips, by the action of irregularly shaped abrasive particles?

A. Grinding ✓

B. Tapping

C. Reaming

D. Drilling

Q66 Part B (Mechanic Diesel)

Which of the following is a part of pressure feed cooling system?

A. Water pump ✓

B. Turbocharger

C. Fuel feed pump

D. Oil pump

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Q67 Part B (Mechanic Diesel)

Wet type air cleaner is also known as _____

A. Oil bath air cleaner ✓

B. Paper type air cleaner

C. Cloth type air cleaner

D. Dry type air cleaner

Q68 Part B (Mechanic Diesel)

Engine exhaust gas pressure is _____.

A. 25 kg/cm^2

B. 15 kg/cm^2

C. 10 kg/cm^2 ✓

D. 65 kg/cm^2

Q69 Part B (Mechanic Diesel)

In which of the following systems are the oil seals used?

A. Lubrication system ✓

B. Cooling system

C. Intake system

D. Fuel feed system

Q70 Part B (Mechanic Diesel)

A starter motor rotates the _____.

A. dynamo

B. electrical motor

C. commutator

D. fly wheel ✓

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Q71 Part B (Mechanic Diesel)

In a diesel engine, the injector pressure is _____.

A. 120 to 140 bar

B. 125 to 150 bar

C. 160 to 180 bar

D. 100 to 120 bar ✓

Q72 Part B (Mechanic Diesel)

Oxygen sensor is also called as _____ sensor.

A. lambda ✓

B. crank position

C. mass flow

D. cam position

Q73 Part B (Mechanic Diesel)

Engine oil consumption is high when the _____.

A. compression pressure is weak

B. cylinder bore is small

C. oil level is low

D. piston rings are worn out ✓

Q74 Part B (Mechanic Diesel)

A thick cable is required to supply power to the starter because _____.

A. the voltage needed is more than 200 v

B. extra strength is needed to resist the vibration

C. thick insulation is needed to prevent a short circuit

D. the motor require very large current ✓

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Q75 Part B (Mechanic Diesel)

CRDI stand for

A. Common Rack Direct Injection

B. Common Rail Distributor Injector

C. Common Rail Direct Injection ✓

D. Common Regular Direct Interval

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Part B (Mechanic Diesel) — 75 Questions • Answer Key

Q1 Part B (Mechanic Diesel)

A 12 V lead-acid battery consists of:

A. three cells in parallel

B. six cells in parallel

C. three cells in a series

D. six cells in a series ✓

Q2 Part B (Mechanic Diesel)

A _____ is mounted on the rear end of a crankshaft.

A. timing sprocket

B. vibration damper

C. counter weight

D. Flywheel ✓

Q3 Part B (Mechanic Diesel)

The small end of the piston pin is connected to the:

A. small end of the connecting rod ✓

B. cam shaft

C. crank shaft

D. big end of the journal

Q4 Part B (Mechanic Diesel)

An oily workshop floor can be cleaned:

A. by spraying Carbon dioxide ✓

B. by cotton waste

C. with the help of wooden dust and sand

D. by washing with water

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Q5 Part B (Mechanic Diesel)

Which of the following part comes in vehicle lubrication system?

A. Oil crank

B. Oil pump ✓

C. Oil sump

D. Oil filter

Q6 Part B (Mechanic Diesel)

In a four-stroke diesel engine, what happens in the suction stroke?

A. Exhaust gases are exhausted

B. Air fuel mixture compresses

C. Air enters into the combustion chamber ✓

D. Power is produced

Q7 Part B (Mechanic Diesel)

How should the radiator core be cleaned?

A. From the top hose to the bottom hose

B. From the outside to the fan side

C. By reverse flushing ✓

D. From the top to the bottom of the core

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Q8 Part B (Mechanic Diesel)

Identify the tool in the given figure.



A. Scale

B. Torque wrench

C. Screw driver

D. Ratchet spanner ✓

Q9 Part B (Mechanic Diesel)

The spark plug gap is adjusted by a:

A. Scale

B. go gauge

C. blade gap adjustment ✓

D. feeler gauge

Q10 Part B (Mechanic Diesel)

In a cooling system, a small DC motor is used in which of the following devices?

A. Pump

B. Hose pipes

C. Fan ✓

D. Belt

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Q11 Part B (Mechanic Diesel)

Crane hooks are generally made of:

A. High speed steel

B. Mild steel ✓

C. Cast iron steel

D. Cast iron

Q12 Part B (Mechanic Diesel)

The portion of the reamer which is held and driven (it can be parallel or tapered) is called the:

A. Axis

B. Recess

C. Body

D. Shank ✓

Q13 Part B (Mechanic Diesel)

Which type of file is used for internal curved surfaces?

A. Half round file ✓

B. Triangular file

C. Square file

D. Round files

Q14 Part B (Mechanic Diesel)

Following is not part of valve assembly.

A. head

B. spring ✓

C. stem

D. bearing

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Q15 Part B (Mechanic Diesel)

Identify the part shown in the given figure.



- A. Snap ring ✓
- B. Cotter pin
- C. Wire fastener
- D. Tab washer

Q16 Part B (Mechanic Diesel)

When cutting an ISO Metric thread for a coarse pitch, by how many degrees should the compound rest be swiveled to?

- A. 30° ✓
- B. 15°
- C. 60°
- D. 45°

Q17 Part B (Mechanic Diesel)

Which of the following equipment can be consider in hoist category?

- A. Wheel aligner
- B. Two post lift ✓
- C. Engine scanner
- D. Tyre changer

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Q18 Part B (Mechanic Diesel)

Identify the part shown in the figure.



A. Electronic Diesel Control

B. Fuel injector

C. Common rail ✓

D. Fuel pump

Q19 Part B (Mechanic Diesel)

Which of the following term is not related ignition system of vehicle?

A. Ignition coil

B. Distributor

C. Spark plug ✓

D. Rocker arm

Q20 Part B (Mechanic Diesel)

Which of the following is not related to piston ring?

A. Compression ring

B. Oil ring ✓

C. Clip ring

D. Wiper ring

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Q21 Part B (Mechanic Diesel)

Which among the following metals is the lightest?

A. Copper

B. Aluminium

C. Lead

D. Tin ✓

Q22 Part B (Mechanic Diesel)

Chromium stainless steel alloy is used for making:

A. Piston

B. Camshaft

C. Inlet and exhaust valve

D. Crank shaft ✓

Q23 Part B (Mechanic Diesel)

What is the full form of CRDi?

A. Common Rod Direct Inductive

B. Common Road Drive Inspection

C. Common Rail Direct Injection ✓

D. Common Road Direct Injection

Q24 Part B (Mechanic Diesel)

The crank shaft is made by the process of _____.

A. Pressing

B. Casting

C. Forging ✓

D. Turning

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Q25 Part B (Mechanic Diesel)

The high torque electric motor for turning the gear on the engine flywheel is called:

A. Dynamo

B. Alternator

C. Reversible motor

D. Starting motor ✓

Q26 Part B (Mechanic Diesel)

What material is a piston made of?

A. Cast iron

B. Carbon steel

C. Steel

D. Aluminum alloy ✓

Q27 Part B (Mechanic Diesel)

What is the point angle of a twist drill?

A. 60°

B. 90°

C. 135° ✓

D. 118°

Q28 Part B (Mechanic Diesel)

In a three-way catalytic converter, HC, CO and NO_x gases are converted as:

A. CO, N_2 and HC

B. CO_2, NO_x and HC

C. H_2O, N_2 and CO_2 ✓

D. H_2O, NO_x and HC

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Q29 Part B (Mechanic Diesel)

The purpose of Variable valve timing (VVT) is:

A. Variation in valve size

B. High vibration on valve head

C. Alter the valve lift ✓

D. No change in valve lift

Q30 Part B (Mechanic Diesel)

In a two-stroke engine, the air fuel mixture enters into the combustion chamber through the:

A. exhaust port

B. transfer port ✓

C. inlet manifold

D. intake port

Q31 Part B (Mechanic Diesel)

The _____ limits the distance of the crankshaft and can slide forward or backward in the block.

A. spring washer

B. main thrust bearing ✓

C. dummy plates

D. plain washer

Q32 Part B (Mechanic Diesel)

Which type of chisel is used for squaring materials at the corners?

A. Diamond point chisel

B. Cross-cut chisel

C. Half round nose chisel

D. Flat chisel ✓

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Q33 Part B (Mechanic Diesel)

Timing belt connect engine:

A. Camshaft and crankshaft ✓

B. Piston and connecting rod

C. Alternator and engine

D. Axle and wheel

Q34 Part B (Mechanic Diesel)

Combination of wetting, surface tension and slipperiness is called:

A. Flash point

B. Fire point

C. Volatility

D. Oiliness ✓

Q35 Part B (Mechanic Diesel)

Which of the following fuels is used in an internal combustion engine?

A. Hydrogen

B. Diesel ✓

C. Wood

D. Coal

Q36 Part B (Mechanic Diesel)

In compressed ignition engines, cylinder liners are provided:

A. outside the cylinder block

B. inside the cylinder head

C. inside the cylinder block ✓

D. on the cylinder head

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Q37 Part B (Mechanic Diesel)

What is the full form of Ti-VCT?

A. Twin Interdependent Variable Controller Timing

B. Twin Independent Variable Camshaft Timing ✓

C. Twin Interdependent Variable Countershaft Timing

D. Twin Interdependent Variable Crankshaft Timing

Q38 Part B (Mechanic Diesel)

What is an injector code commonly known as?

A. IMA ✓

B. VMA

C. DMA

D. MMA

Q39 Part B (Mechanic Diesel)

Which of the following is a reason for an engine not starting?

A. No fuel in the tank ✓

B. Clogged air cleaner

C. Timing defect

D. Punctured tires

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Q40 Part B (Mechanic Diesel)

Identify the type of oil filter shown in the given figure.



A. Cartridge type

B. Spin on type ✓

C. Centrifugal type

D. Magnetic type

Q41 Part B (Mechanic Diesel)

In a grinding wheel, what is the size of the finest abrasive grain?

A. 220 – 1000 ✓

B. 6 – 24

C. 70 – 200

D. 30 – 60

Q42 Part B (Mechanic Diesel)

When drilling a cast iron metal, which of the following coolants is used?

A. Machine oil

B. Kerosene

C. Lubricant oil

D. Dry air ✓

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Q43 Part B (Mechanic Diesel)

Which one of the following is used to hold the straight shank drill having diameter less than 12 mm?

A. Sleeve

B. Drill chuck ✓

C. Drill drift

D. Socket

Q44 Part B (Mechanic Diesel)

In which of the following instances would engine oil consumption be high?

A. Oil level is low

B. Piston rings are worn out ✓

C. Compression pressure is weak

D. Cylinder bore is small

Q45 Part B (Mechanic Diesel)

After reassembly, the engine power can be tested with the help of a _____.

A. Hydrometer

B. Test bench

C. Dynamometer ✓

D. Multimeter

Q46 Part B (Mechanic Diesel)

The lower hose pipe is connected between:

A. thermostat and bypass valve

B. thermostat and radiator

C. thermostat and water pump

D. water pump inlet and radiator outlet tank ✓

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Q47 Part B (Mechanic Diesel)

What is the full form of VVTL-I?

A. Variable Valve Timing Lift Intelligence system ✓

B. Valve Variation Time Line In

C. Variable Valve Time and Lift

D. Variable Valve Total Line In system

Q48 Part B (Mechanic Diesel)

A lock nut is provided in a micrometer to:

A. control the movement of the spindle ✓

B. lock the micrometer when it is not in use

C. lock the reading after setting the job

D. measure accuracy

Q49 Part B (Mechanic Diesel)

Which type of washer is used for locking a nut?

A. Tab washer

B. Spring washer

C. Locking washer with lug ✓

D. Locking device

Q50 Part B (Mechanic Diesel)

In which circuit is a solenoid switch used?

A. Starting circuit ✓

B. Charging circuit

C. Ignition circuit

D. Electrical circuit

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Q51 Part B (Mechanic Diesel)

Which of the following is a speed indicator on the dashboard?

A. RPM (Revolutions per minute) ✓

B. AMP meter

C. Pressure gauge

D. Voltmeter

Q52 Part B (Mechanic Diesel)

In a turbocharger, the turbine wheel housing is connected to the:

A. exhaust manifold ✓

B. front of the engine block

C. flywheel side

D. intake manifold

Q53 Part B (Mechanic Diesel)

With which one of the following heat treatment processes do we obtain a scale-free surface on the component?

A. Nitriding

B. Case hardening

C. Flame hardening

D. Induction hardening ✓

Q54 Part B (Mechanic Diesel)

Why are woodruff keys used?

A. Because they are less expensive

B. Because they can take heavy load

C. Because they are easy to fit and self-align ✓

D. Because they can take shear stress

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Q55 Part B (Mechanic Diesel)

Which drill point angle should be used for Zinc alloys?

A. 80°

B. 45°

C. 30°

D. 118° ✓

Q56 Part B (Mechanic Diesel)

In passenger cars, emissions are measured in the unit of:

A. g/m

B. Kg/km

C. g/km ✓

D. g/kwh

Q57 Part B (Mechanic Diesel)

Which one of the following stroke is produced in an engine when both valves are closed?

A. Compression

B. Suction

C. Power

D. Exhaust ✓

Q58 Part B (Mechanic Diesel)

Following is not part of diesel engine:

A. Fuel injection pump

B. Injector

C. Spark plug ✓

D. Fuel filter

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Q59 Part B (Mechanic Diesel)

Valve timing diagram is

A. Graphical representation of piston position

B. Graphical representation of the opening and closing of intake and exhaust valve of engine:

C. Graphical representation of cam shaft location

D. Graphical representation of crank shaft position ✓

Q60 Part B (Mechanic Diesel)

Splash system is related to vehicle:

A. Electrical system

B. Lubrication system ✓

C. Exhaust system

D. Cooling system

Q61 Part B (Mechanic Diesel)

In _____ engine there is one working stroke for every two revolutions of the crankshaft.

A. Four stroke ✓

B. Three stroke

C. Two stroke

D. One stroke

Q62 Part B (Mechanic Diesel)

In an engine, the manifold absolute pressure sensor is placed at the:

A. crankshaft

B. inlet manifold ✓

C. camshaft

D. exhaust manifold

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Q63 Part B (Mechanic Diesel)

The function of gudgeon pin is:

A. Connect valve to camshaft

B. Connect crankshaft to flywheel

C. Connect engine to gear box

D. connect piston to connecting rod ✓

Q64 Part B (Mechanic Diesel)

Which one of the following pulleys is used to obtain different speeds?

A. Stepped pulley ✓

B. Split pulley

C. Solid pulley

D. Jockey pulley

Q65 Part B (Mechanic Diesel)

Poor starting of diesel engine can be:

A. Low engine power

B. Loose radiator fan belt

C. Air in fuel injection pump

D. Low brake fluid level ✓

Q66 Part B (Mechanic Diesel)

Which among the following happens if the clutch is not functioning?

A. Vehicle will not move ✓

B. Engine will not start

C. Engine gets overheated

D. Fly wheel is at rest

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Q67 Part B (Mechanic Diesel)

What is the full form of MOSFET?

A. Metal Offset Flow Effect Thermistor

B. Metal Oxide Semiconductor Fusion Effect Transistor

C. Metal Oxide Semiconductor Final End Transistor

D. Metal Oxide Semiconductor Field Effect Transistor ✓

Q68 Part B (Mechanic Diesel)

A single cylinder diesel engine produces power for:

A. 4 revolutions

B. every revolution

C. 1½ revolutions

D. 2 revolutions ✓

Q69 Part B (Mechanic Diesel)

How can we remove a broken bolt from a tapped hole?

A. With a tap extractor ✓

B. With heat treatment

C. With a pin punching hammer

D. By annealing the tapped drill hole

Q70 Part B (Mechanic Diesel)

The electrodes are manufactured in two standard lengths namely:

A. 350 mm and 450 mm ✓

B. 200 mm and 300 mm

C. 650 mm and 750 mm

D. 500 mm and 600 mm

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Q71 Part B (Mechanic Diesel)

What is the maximum fuel pressure in a unit injector system?

- A. 2400 bar ✓
- B. 400 bar
- C. 800 bar
- D. 1600 bar

Q72 Part B (Mechanic Diesel)

Which of the following filling metals are used during brazing in an alloy?

- A. Zinc and lead
- B. Copper and tin
- C. Copper and zinc
- D. Lead and copper ✓

Q73 Part B (Mechanic Diesel)

Room temperature vulcanizing (RTV) sealer is also called:

- A. Rubber sealer
- B. Silicone sealer ✓
- C. Steel sealer
- D. Tin sealer

Q74 Part B (Mechanic Diesel)

Which one the following keys is used on an automobile shaft?

- A. Taper key
- B. Woodruff key
- C. Gib head key ✓
- D. Saddle key

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Q75 Part B (Mechanic Diesel)

Which of the following is an example of an electrical conductor?

A. Wood

B. Copper ✓

C. Porcelain

D. Plastic

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