

# MECHANIC STUDY GUIDE

## Engine Repair

### Automobile and Light Truck Repair

Listed below are a number of items and subjects which make up the mechanic certification test identified above. An individual's ability to pass the certification test will depend upon the amount of knowledge the person has concerning these items.

#### **Engine Block Diagnosis & Repair - 12%**

Using a bore gauge  
Honing a newly bored cylinder  
Engine bore diagnosis  
Installing pistons in block  
Cleaning and assembling

#### **Cylinder Head/Valve Train Diagnosis & Repair - 21%**

Intake valve deposits  
Valve tappet clearance  
Valve timing understanding  
Valve tappet adjustment  
Valve guide wear  
Valve refacing  
Valve spring diagnosis  
Noisy lifter diagnosis  
Valve seats

#### **General Engine Diagnosis - 19%**

Oil consumption  
.001" cylinder leakage test  
Compression test  
Sludge in crankcase  
Vacuum testing  
Low oil pressure  
Crankcase blow-by diagnosis  
Spark plug diagnosis

#### **Piston Diagnosis & Repair - 10%**

Piston design  
Ring groove diagnosis  
Piston ring diagnosis

#### **Crankshaft & Camshaft Diagnosis & Repair - 15%**

Crankshaft end-play Journal  
taper diagnosis Installing  
cam bearings Camshaft  
diagnosis Crankshaft  
diagnosis

#### **Miscellaneous - 23%**

Understanding measurements to Engine  
Assembling procedures  
Diagnosing coolant bubbling  
Micrometer reading  
Bolt head markings  
Engine break-in  
Water pump diagnosis  
Turbocharger diagnosis Engine  
R&R procedures Basic  
carburetor diagnosis  
Vibration/misfire diagnosis  
Plastigage use

#### **SAMPLE QUESTION:**

A transverse mounted engine with front wheel drive must be removed from the car. All of the following are generally recommended EXCEPT:

- A. Removing the engine and transaxle as a unit.
- B. Disconnecting the speedometer cable.
- C. Disconnecting the half-shafts.
- D. Removing the differential gears.

**ANSWER: D**

# Mechanic Study Guide Engine Repair Diesel

**S Marginson**



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web an solution initially contains a catalytic amount of an enzyme with  $k_m = 1.5 \text{ mmol/L}$  of substrate and no product after  
45 seconds the solution contains  $25 \mu\text{M}$  of product find  $v_{max}$  and the concentration of product after 20 minutes hint  $s = k_m$   
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web a reaction and its experimental rate law are represented below  $2 \text{ICl} + \text{H}_2 \rightarrow 2 \text{HCl} + \text{I}_2$  rate  $k [\text{ICl}]^2 [\text{H}_2]$  a chemist  
proposes a mechanism for the reaction that is consistent with the rate law the mechanism has two elementary steps and the  
first step is slow compared to the second

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web kinetics practice problems and solutions d write the rate law for the overall reaction rate  $k_a = 2 \text{ b} = 2.9$  consider the following mechanism  $\text{o}_3 \rightarrow \text{o}_2 + \text{o}$  fast  $\text{o}_3 + \text{o}_2 \rightarrow 2 \text{ o}_2$  slow a write the overall balanced chemical equation  $2 \text{ o}_3 \rightarrow 3 \text{ o}_2$  b identify any intermediates within the mechanism o c what is the order with respect

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web reaction rates google classroom  $\text{mg} + \text{s} + 2 \text{ hcl} \rightarrow \text{mgcl}_2 + \text{a} + \text{q} + \text{h}_2$  the reaction between  $\text{mg} + \text{s}$  and  $\text{hcl} + \text{a} + \text{q}$  is represented by the equation above in a kinetics experiment a 0.080 g sample of  $\text{mg} + \text{s}$  ribbon is added to an erlenmeyer flask containing 50 ml of 3.0 M  $\text{hcl} + \text{a} + \text{q}$  at 25 °C

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