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## Theory Test Bronze (A)\_int

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Training: Theory Test Bronze (A)\_int

Questions: 30

Introduction: Welcome to the online test.  
Please select ONE or at most TWO answers per question.  
The training team wishes you every success.

Question: 1 of 30

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**Question:**

Which of the following statements about the DME control unit is correct for vehicles with electronic throttle? (one answer is correct)

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*Please select one or more training answer options.*

The Check Engine warning lamp always lights up continuously if combustion misfires damaging to the catalytic converter occur.

The throttle valve is activated using a bowden cable (accelerator cable).

In a Continental or Siemens DME control unit, the fault-deletion counter counts back from 40 directly to 10 and then 9/8/7 etc. to 0 in the event of a sporadic fault.

In the DME control unit, the driver's torque request is calculated using the accelerator-pedal position and the engine speed.

Question: 2 of 30

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**Question:**

Which of the following statements about the fuel supply is correct for vehicles with MPI/DFI?  
(two answers are correct)

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*Please select one or more training answer options.*

In fuel systems without a return line (RF), the fuel pressure regulator is installed in the engine compartment.

The fuel in the fuel tank heats up less in fuel systems without a return line (RF) than in systems with a return line.

911 Carrera 4 vehicles (997) have one electric fuel pump in the fuel tank.

Cayenne vehicles as of model year 2011 and Panamera vehicles have 2 electric fuel pumps in the fuel tank.

Question: 3 of 30

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**Question:**

Which of the following statements about working on oxygen sensors is correct? (two answers are correct)

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*Please select one or more training answer options.*

Oxygen sensors must be protected against mechanical shocks.

It is essential that oxygen sensors are fitted with copper-based paste.

LSU broadband oxygen sensors are only installed downstream of the catalytic converters.

Contact spray or grease must not be used on the plug connections of the oxygen sensors.

Question: 4 of 30

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**Question:**

In which cases is the automatic restart prevented in the Auto Start Stop system on 9x1 vehicles? (two answers are correct)

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*Please select one or more training answer options.*

Driver's door open

Luggage compartment lid open

Driver's seat belt not fastened

Passenger's door open

Question: 5 of 30

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**Question:**

Which statements about the DFI injection systems are correct? (two answers are correct)

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*Please select one or more training answer options.*

The Cayenne 3.6 I V6 DFI engine has a 3-piston high-pressure pump.

All V8 DFI engines have a 6-piston high-pressure pump.

In the Continental/Siemens DFI systems, the fuel high-pressure pump and the volume of the high-pressure line (rail) and fuel injectors are adapted to the fuel requirement of the respective engine.

Voltage converters that activate the injectors with up to 75 volts are installed in the Continental/Siemens DFI control units.

Question: 6 of 30

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**Question:**

Which of the following statements about the Cayenne S Hybrid and Panamera S Hybrid is correct? (two answers are correct)

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*Please select one or more training answer options.*

A technician who works as an electrically instructed person (eip) in the workshop is permitted to carry out all work on hybrid vehicles.

The electrically instructed person (eip) is only permitted to carry out defined tasks on hybrid vehicles as assigned by the high voltage technician (HVT).

NO warning signs must be placed on the vehicle when performing maintenance operations.

High-voltage lines are identified by the warning color orange on hybrid vehicles.

Question: 7 of 30

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**Question:**

Which of the following statements about the V6 diesel engine in the Cayenne and Panamera is correct? (two answers are correct)

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*Please select one or more training answer options.*

After the fuel filter is changed, the fuel system must be vented using the PIWIS Tester before the engine is started.

The diesel particle filter can only be regenerated in the workshop.

Only oils approved by Porsche that meet the Porsche C30 specification may be used.

Incorrect refuelling with petrol is not critical.



Question: 8 of 30

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**Question:**

Which engine has just one turbocharger? (one answer is correct)

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*Please select one or more training answer options.*

911 Turbo (997)

Cayenne V6 Diesel

Cayenne Turbo

911 GT2 (997)

Question: 9 of 30

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**Question:**

Which of the following statements about measuring closed-circuit current is correct? (one answer is correct)

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*Please select one or more training answer options.*

A short-term and long-term measurement is possible when measuring closed-circuit current with PIWIS Tester II.

When measuring closed-circuit current with PIWIS Tester II, the "Wake Up Guardian" determines the maximum permissible closed-circuit current.

The maximum permissible closed-circuit current cannot be determined using the ammeter.

The maximum permissible closed-circuit current can be determined using the digital 2-channel storage oscilloscope found under Measuring equipment (measuring tool) on PIWIS Tester II.

Question: 10 of 30

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**Question:**

Which of the following statements about the measuring equipment (measuring tool) available on PIWIS Tester II is NOT correct? (one answer is correct)

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*Please select one or more training answer options.*

The measuring equipment available on PIWIS Tester II can be used on all Porsche AG vehicles, including high-voltage technology for hybrid vehicles.

The measuring equipment includes a 2-channel multimeter.

The measuring equipment includes a 2-channel storage oscilloscope.

The measuring equipment includes a current measurement function for channel 1 and channel 2.

Question: 11 of 30

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**Question:**

Which of the following statements about the IPO principle (Input-Processing-Output) is FALSE?  
(one answer is correct)

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*Please select one or more training answer options.*

The sensors in a system are like the sensory organs and are used for signal input (Input).

The processor, software and memory in the control unit are like a human brain and are used for processing (Processing).

The processor makes corrections by actuating a drive link via a driver; this corresponds to the output (Output).

The driver can be compared to the muscles of a hand and is used for signal input (Input).

Question: 12 of 30

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**Question:**

Which of the following statements about the wiring diagrams is correct? (two answers are correct)

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*Please select one or more training answer options.*

Wiring diagrams can only be saved as a PDF file and can no longer be printed out.

The wiring diagrams for the Panamera include a folder with function overviews.

Individual lines can be highlighted in color in the wiring diagrams and the non-highlighted lines filtered out.

The individual current paths include the associated fault codes for the listed components.

Question: 13 of 30

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**Question:**

Which of the following statements about the air-conditioning settings ("extended air-conditioning functions") in the multi-function display is correct? (two answers are correct)

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*Please select one or more training answer options.*

- "AUTO defrost mode" can be switched on and off in the "extended air-conditioning functions". When this air-conditioning function is activated, the sensor in the mirror base (rearview mirror) records the humidity close to the windscreen.
  
- The air-conditioning settings cannot be changed using PIWIS Tester II.
  
- After the "Extended ventilation panel" menu item is activated in the multi-function display, air starts flowing through the top and side openings in the dashboard. The air flows to the windscreen and the front side windows and assists with defrosting.
  
- The Panamera has a total of four air-conditioning functions in the multi-function display; these functions can be individually adjusted by the customer.

Question: 14 of 30

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**Question:**

The refrigerant R134a can be a solid, liquid or gas depending on the temperature and pressure. Which of the following statements about the allocation of the state of R134a in a refrigerant circuit is correct? (two answers are correct)

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*Please select one or more training answer options.*

At a temperature of 10 °C [50 °F] and a pressure of 84 psi (5.8 bar), the refrigerant is a liquid.

At a temperature of 22 °C [72 °F] and a pressure of 174 psi (12 bar), the refrigerant is a gas.

At a temperature of 50 °C [122 °F] and a pressure of 84 psi (5.8 bar), the refrigerant is a liquid.

At a temperature of 65 °C [149 °F] and a pressure of 174 psi (12 bar), the refrigerant is a gas.

Question: 15 of 30

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**Question:**

Which of the following answers describes the correct order in which refrigerant flows through components in the direction of movement when the compressor is running? (one answer is correct)

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*Please select one or more training answer options.*

Compressor (high pressure) / condenser / expansion valve (valve side) / evaporator / filter dryer equipment / expansion valve (return) / compressor (low pressure)

Compressor (high pressure) / condenser / expansion valve (valve side) / evaporator / expansion valve (return) / filter dryer equipment / compressor (low pressure)

Compressor (high pressure) / condenser / filter dryer equipment / expansion valve (return) / evaporator / expansion valve (valve seat) / compressor (low pressure)

Compressor (high pressure) / condenser / filter dryer equipment / expansion valve (valve side) / evaporator / expansion valve (return) / compressor (low pressure)



Question: 16 of 30

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**Question:**

What is the purpose of the evaporator in the air conditioner? (one answer is correct)

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*Please select one or more training answer options.*

The evaporator removes heat from the refrigerant, making it liquid again.

The evaporator removes heat from the air, evaporating the refrigerant.

The evaporator removes humidity from the refrigerant and pumps the cold air into the passenger compartment.

The evaporator condenses the water vapor and discharges it to the outside (floorpan assembly).

Question: 17 of 30

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**Question:**

Which of the following statements about piston rings is correct? (one answer is correct)

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*Please select one or more training answer options.*

The oil scraper ring provides the fine sealing function for the piston in the cylinder.

The compression ring transfers the heat from the piston to the cooled cylinder.

The trapezoidal ring amplifies the contact pressure generated by the combustion gases.

Piston rings are malleable for better adaptation at the piston and cylinder.

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**Question:**

What does the term "cracking" mean in the context of manufacturing connecting rods? (one answer is correct)

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*Please select one or more training answer options.*

"Cracking" refers to breaking the small connecting-rod eye.

"Cracking" refers to breaking the large connecting-rod eye.

"Cracking" indicates chrome content exceeding 18% in the material.

"Cracking" refers to fast cooling during manufacture of the connecting rod.

Question: 19 of 30

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**Question:**

Why is the piston pin offset? (two answers are correct)

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*Please select one or more training answer options.*

Offsetting reduces the friction on the backpressure side.

Offsetting improves the dimensional stability of the piston.

Offsetting reduces piston running noises.

Reducing the friction of the piston and cylinder is called offsetting.

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**Question:**

What does a “gentle warning” in TPM indicate? (one answer is correct)

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*Please select one or more training answer options.*

A “gentle warning” indicates a slight loss of pressure of less than 3 - 6 psi (0.2 to 0.4 bar).

The “gentle warning” indicates a gradual loss of pressure of less than 1.5 psi (0.1 bar).

This warning is output if the tire pressure is falling faster than 1.5 psi (0.1 bar) per minute.

This warning is output if the tire pressure is around 7.3 psi (0.5 bar) too low for the speed range of 0-160 km/h (0-100 mph) compared to the required pressure.

Question: 21 of 30

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**Question:**

Which of the following statements about the reciprocating engine is correct? (two answers are correct)

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*Please select one or more training answer options.*

The displacement includes the compression volume of a reciprocating engine.

The stroke corresponds to the crank diameter.

The power specification in kW is standardized.

The piston speed is constant over the entire stroke curve.

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**Question:**

What is the formula for the compression ratio of a reciprocating engine? (one answer is correct)

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*Please select one or more training answer options.*

Compression ratio = (cylinder displacement + compression volume) / compression volume

Cylinder displacement = (engine displacement + compression volume) / engine displacement

Compression ratio = (engine displacement + compression volume) / cylinder displacement

Compression ratio = (engine displacement + compression volume) / compression volume

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**Question:**

What is the difference between a flat engine and a V-engine with a cylinder bank angle of 180°? (one answer is correct)

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*Please select one or more training answer options.*

Both engines necessarily have different ignition intervals.

The engines have different designations due to patent law.

In the flat engine, each connecting rod lies on one connecting-rod journal.

In the V-engine, each connecting rod lies on one connecting-rod journal.



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**Question:**

What is the maximum permissible brake disk runout on Porsche vehicles? (one answer is correct)

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*Please select one or more training answer options.*

0.0008 in. (0.02 mm)

0.0024 in. (0.06 mm)

0.024 in. (0.60 mm)

0.24 in. (6.00 mm)

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**Question:**

Which condition criteria can make the replacement of PCCB brake disks necessary? (two answers are correct)

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*Please select one or more training answer options.*

Replacement is generally necessary if there are cracks longer than 0.4 in. (10 mm) in the brake disk.

Replacement is necessary with surface roughness  $R_k > 0.0022$  in. (56  $\mu\text{m}$ ).

Replacement is necessary with continuous surface defects  $> 0.4$  in. (1 cm).

Replacement is necessary with edge damage with a width/depth  $> 0.08$  in. (2 mm), length  $> 0.4$  in. (10 mm).

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**Question:**

The sidewall of a summer tire shows the designation "DOT 194". What information does this contain? (one answer is correct)

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*Please select one or more training answer options.*

Date of manufacture: 1st month of 1994

Date of manufacture: Week 19 1984

Date of manufacture: Week 19 1994

Date of manufacture 9/1/1984

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**Question:**

The 911 Carrera is celebrating a very special anniversary this year. Which anniversary is it?  
(one answer is correct)

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*Please select one or more training answer options.*

40 years of the 911 Targa

50 years of the 911

60 years of the 911

20 years of the 911 Cabriolet

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**Question:**

A customer needs operating instructions in English for a 911 Carrera from 1992 (model 964). Which order number is correct? (one answer is correct)

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*Please select one or more training answer options.*

WKD 96402092

WAP 91101092

964.000.100.20

WOS 964100020

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**Question:**

What year was the "Porsche crest" introduced as a standard feature on all Porsche vehicles?  
(one answer is correct)

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*Please select one or more training answer options.*

1949

1952

1954

1956

Question: 30 of 30

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**Question:**

When was the first 911 Carrera Cabriolet offered and what was the model year? (one answer is correct)

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*Please select one or more training answer options.*

1984 and 911 Carrera

1978 and 911 SC

1983 and 911 SC

1990 and 964