

中央广播电视大学汽车维修(专科)系列辅助教材

北京中德合力技术培训中心组编

# 汽车实用英语形成性考核册

汽车实用英语课程组编写

学校名称: \_\_\_\_\_

学生姓名: \_\_\_\_\_

学生学号: \_\_\_\_\_

班 级: \_\_\_\_\_

中央广播电视大学出版社

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形成性测评是学习测量和评价的一个重要组成部分。对学生学习行为和学习成果进行形成性考核，是“中央广播电视大学人才培养模式改革和开放教育试点”教、学测评改革的一个重要举措。《形成性考核册》是根据课程教学大纲和考核说明的要求，结合您的学习进度而设计的测评、要求与试题的汇集，旨在帮助学生学习、教师教学及学校管理。

**通过您完成形成性考核册中要求的任务，您可以达到以下目的：**

1. 加深您对所学内容的印象，巩固您的学习成果。
2. 增强您学习中的情感体验，端正学习态度，激发学习积极性。
3. 实现自我监控学习过程，帮助您及时发现学习中的薄弱环节，并采取措施改进。
4. 学以致用，提高您综合分析问题、解决问题的能力。
5. 获得相应的成绩记录。

**通过您完成形成性考核册中要求的任务，教师可以达到以下目的：**

1. 了解您的学习态度。
2. 对您的学习行为包括学习过程、学习表现进行综合评价。
3. 了解您学习中存在的问题，及时反馈学习信息、有针对性地进行指导。
4. 分析并帮助您提高学习能力，学会学习。
5. 记录您的学习测评分数。

**中央电大对形成性考核管理的基本要求：**

1. 完成《形成性考核册》的规定任务，是教学管理的基本要求。“中央广播电视大学统设必修课程形成性考核实施细则（试行）”（电校考〔2002〕9号）文件中规定，学生必须完成《形成性考核册》中要求任务的一半以上和课程的教学实践活动（实验），才能参加课程终结性考试。

2. 完成《形成性考核册》要求任务的评价分数按比例计入课程学习总成绩。

3. 形成性考核的任务，要求独立完成，不得抄袭他人的答案。抄袭答案者和被抄袭者的成绩均做0分处理。如果学生端正学习态度，提出重新完成形成性考核的任务，其成绩认定最高为60分。

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# 汽车实用英语

## 作业 1

姓 名: \_\_\_\_\_

学 号: \_\_\_\_\_

得 分: \_\_\_\_\_

教师签名: \_\_\_\_\_

### I. Translate the following phrases and expresses. (每题 2 分, 共 18 分)

1. disc brake:
2. spark ignition and compression ignition:
3. crankshaft and camshaft:
4. emission control system:
5. multi-cylinder engine:
6. clearance volume:
7. gasoline mixed with air:
8. jump across the gap of spark plug:
9. turn through a half revolution:

### II. Multiple Choice: Circle the letter in the correct answer. (每题 1 分, 共 20 分)

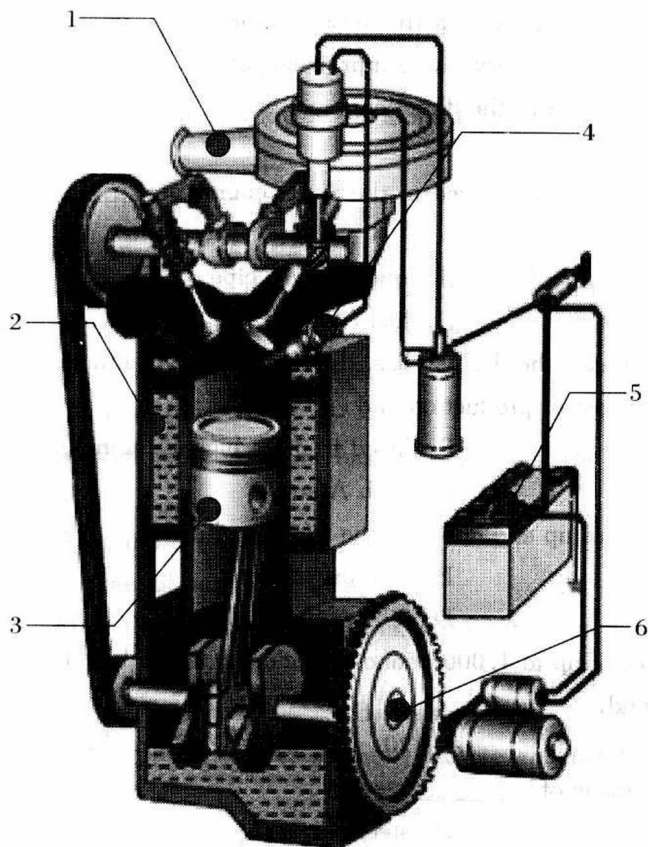
1. An automobile includes the following major categories: the body, the engine, \_\_\_\_\_ and the electrical system.  
A. the steering system    B. the power source    C. the chassis    D. the ignition system
2. With front drive arrangement or rear-wheel-drive arrangement, \_\_\_\_\_ transmit the power to the drive wheels.  
A. piston engine    B. gears  
C. gears and shafts    D. diesel engine

3. \_\_\_\_\_ is used to separate drive from the engine to gearbox and to allow a smooth, progressive take-up of drive.  
A. The clutch  
B. The transmission system  
C. The drum brake  
D. The shock absorber
4. If you want to control the front wheel over various kinds of road conditions, you need learn to use \_\_\_\_\_.  
A. the steering gear  
B. the starting system  
C. the steering system  
D. the final drive
5. In both drum and disc brakes, \_\_\_\_\_ is used to connect the brake pedal to the brake parts at each wheel.  
A. a hydraulic control system  
B. brake assembly  
C. a starting system  
D. a braking system
6. A spark ignition engine has one or more of the basic systems than Diesel engine to run, it is \_\_\_\_\_.  
A. the fuel system  
B. the ignition system  
C. the lubricating system  
D. the cooling system
7. After the fuel system delivers air-fuel mixture to a cylinder, a (an) \_\_\_\_\_ ignites the mixture.  
A. electric spark  
B. battery  
C. spark plug  
D. ignition system
8. The \_\_\_\_\_ system is applied to prevent metal parts of the engine from rubbing against each other.  
A. emission control  
B. cooling  
C. starting  
D. lubricating
9. The \_\_\_\_\_ system is used to reduce the air pollution caused by the engine.  
A. lubricating  
B. emission control  
C. starting  
D. ignition
10. In a four-stroke cycle, which one is actually doing work?  
A. the intake stroke  
B. the compression stroke  
C. the power stroke  
D. the exhaust stroke
11. The shortcomings of the petrol engine in the nineteenth century include the followings except \_\_\_\_\_.  
A. the unreliable nature of the ignition system  
B. the greater expenses  
C. no spark plug used  
D. the high fire risk caused by petrol
12. The diesel engine is also called the compression ignition engine because \_\_\_\_\_.  
A. a compression stroke is one of the four-strokes of a diesel engine  
B. the diesel engine is ignited by the heat of compression not by spark ignition  
C. the diesel engine has a very high compression ratio  
D. both A and B

13. In the compression stroke, one main difference between a diesel engine and a petrol engine is that \_\_\_\_\_.  
 A. the air is compressed in the sealed cylinder in the diesel engine  
 B. the petrol engine has a comparatively very low compression ratio  
 C. combustion occurs by spark ignition in the diesel engine  
 D. both A and B
14. The two basic types of fuel injection pumps used in the diesel engine are \_\_\_\_\_ and in-line type.  
 A. out-line type  
 B. low-pressure pipe  
 C. Distributor Pump Assembly  
 D. fuel filter
15. Compared with the in-line pump, the DPA. has the following advantages: self-lubricating, easy servicing, low cost of production and \_\_\_\_\_.  
 A. a common single element  
 B. fitted to more bigger engines.  
 C. a more precision-built unit  
 D. both A and C
16. \_\_\_\_\_ makes the piston to move up and down in the engine cylinder.  
 A. A result of pressure changes  
 B. The piston head  
 C. An atmospheric pressure  
 D. The mechanical force
17. During the power stroke, a force of up to 4,000 pounds is suddenly applied to the piston head for \_\_\_\_\_ times a second.  
 A. 30  
 B. 40  
 C. 70  
 D. 30 to 40
18. Pistons for modern engines are made of \_\_\_\_\_.  
 A. cast iron  
 B. steel  
 C. aluminum-alloy  
 D. tin-alloy
19. The function of the piston rings is to \_\_\_\_\_.  
 A. help the piston cool by transferring heat from the piston to the cylinder wall  
 B. provide a sliding seal between the piston and the cylinder wall  
 C. scrape oil off the cylinder wall as the piston moves down on the power and intake strokes  
 D. all of the above
20. The connecting rod is made of \_\_\_\_\_.  
 A. cast iron  
 B. forged alloy steel  
 C. aluminum-alloy  
 D. sheet steel



III. Match each number item with the most closely related lettered item and write your answers in the space provided. (每题 2 分, 共 12 分)



- 1 — \_\_\_\_\_  
 2 — \_\_\_\_\_  
 3 — \_\_\_\_\_  
 4 — \_\_\_\_\_  
 5 — \_\_\_\_\_  
 6 — \_\_\_\_\_
- A. piston  
 B. crankshaft  
 C. battery  
 D. belt  
 E. spark plug  
 F. flywheel  
 G. motor  
 H. air filter  
 I. cam  
 J. valve  
 K. water jacket

IV. Fill in the blanks with the words given below. Change the form where necessary. (每题 2 分, 共 20 分)

friction	wear	compress	transmit	lubricate
combustible	charge	alignment	harden	cruise

1. He had burn marks that from the \_\_\_\_\_ of the ropes on his skin.
2. The phone won't work if it isn't \_\_\_\_\_ up.
3. Their routine work is to \_\_\_\_\_ around the Mississippi.
4. The wheels are needed \_\_\_\_\_, please put some oil on it.
5. The carpets have been \_\_\_\_\_, we have to buy a new one.
6. Petrol is \_\_\_\_\_, so we should keep it far from the fire.
7. Iron can \_\_\_\_\_ heat.
8. Their job is to \_\_\_\_\_ straw into blocks for burning.
9. The bread will \_\_\_\_\_ if you don't cover it.

10. The bridge was gradually brought into \_\_\_\_\_.

**V. Translate the following sentences. (每题 2 分, 共 30 分)**

1. With the introduction of computers and electronic devices, the modern vehicle's electrical system is becoming more and more complex.

2. The mass production of the automobiles has affected the society history in the 20th century most inventions.

3. The suspension system can absorb the road shock, which results in a smoother ride, safer handling and less mechanical wear.

4. When the piston move to its highest position inside the cylinder, we can say it is at Top Dead Center (TDC).

5. As a mixture of water and antifreeze, coolant circulates through these water jackets, picking up heat and carrying it away.

6. Although the other three strokes are necessary, they are idle strokes.

7. Fuel tank is usually made of sheet steel with rectangular or circular in shape and have a capacity for approximately 270 liters of fuel.

8. Diesel's work turned out to be so successful by the first decade of the twentieth century that the engine was named the diesel engine after his name.

9. The heavy stresses imposed upon the shaft during operation require its construction to be very stiff and tough. The material used for its manufacture is a special alloy steel, which is either cast or forged into shape.

10. The rear end of the crankshaft usually contains a flange with a number of drilled and tapped holes. The flywheel is securely fastened to it.

11. 空气燃油混合气的燃烧使得活塞运动,并带动曲轴旋转。

12. 冷却液是水和防冻液的混合物,冷却液在水套中循环,将发动机的热量带走。

13. 一个完整的发动机工作循环需要四个冲程:进气冲程、压缩冲程、做功冲程和排气冲程。

14. 柴油机是压燃式发动机。柴油机利用压缩热量来点燃燃料。

15. 柴油机和汽油机的一个主要区别是柴油机的压缩比非常高。

# 汽车实用英语

## 作业 2

姓 名: \_\_\_\_\_  
 学 号: \_\_\_\_\_  
 得 分: \_\_\_\_\_  
 教师签名: \_\_\_\_\_

### I. Translate the following phrases and expresses. (每题 2 分, 共 14 分)

1. valve seat;
2. liquid (water)-cooling system;
3. cylinder order;
4. shorting-out;
5. timing-retarded;
6. manifold injection;
7. 3-way catalytic converter;

### II. Multiple Choice: Circle the letter in the correct answer. (每题 1 分, 共 20 分)

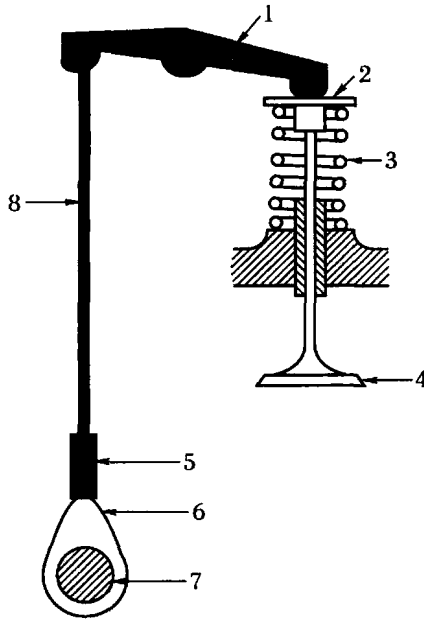
1. There are two basic types of engine valves: \_\_\_\_\_.  
 A. the intake valve and the inlet valve      B. the exhaust valve and the intake valve  
 C. the output valve and the inlet valve      D. the exhaust valve and the output valve
2. A valve opens and closes \_\_\_\_\_ times per mile.  
 A. more than 2,000      B. less than 2,000  
 C. 2,000      D. 100,000
3. According to the location of the camshaft, the valve trains are divided into overhead camshaft type and \_\_\_\_\_.  
 A. valve seat      B. valve guide type  
 C. side camshaft type      D. intake valve and exhaust
4. The purpose of valve springs is to \_\_\_\_\_.





III. Match each number item with the most closely related lettered item and write your answers in the space provided. (每题 2 分, 共 16 分)

- 1 — \_\_\_\_\_  
 2 — \_\_\_\_\_  
 3 — \_\_\_\_\_  
 4 — \_\_\_\_\_  
 5 — \_\_\_\_\_  
 6 — \_\_\_\_\_  
 7 — \_\_\_\_\_  
 8 — \_\_\_\_\_



- A. pushrod  
 B. camshaft  
 C. cam  
 D. gear  
 E. crankshaft  
 F. flywheel  
 G. rocker arm  
 H. connecting rod  
 I. valve spring seat  
 J. throttle  
 K. piston ring  
 L. lifter  
 M. cylinder

IV. Fill in the blanks with the words given below. Change the form where necessary. (每题 2 分, 共 20 分)

evaporate	dilute	seal	dissipate	simultaneously
positive	bounce	transfer	boost	warm-up

- The water soon \_\_\_\_\_ in the sunshine.
- Before the comprehensive test, you'd better do some \_\_\_\_\_ exercise.
- The demonstrations in London and Pairs happened \_\_\_\_\_.
- The company is taking a new measure to \_\_\_\_\_ their export trade.
- The electrical charge can be either \_\_\_\_\_ or negative such that like charges repel and opposite charges attract.
- Who is responsible for the \_\_\_\_\_ of military supplies?
- He was drinking a glass of wine \_\_\_\_\_ with water.
- The ball \_\_\_\_\_ twice before hitting the net.
- The mist quickly \_\_\_\_\_ as the sun rose.
- Put a \_\_\_\_\_ here, it will help prevent oil leaking out.

V. Translate the following sentences. (每题 2 分, 共 30 分)

- This can be explained by the fact that on intake stroke, the cool air passes through the

intake port and the valve head and then into the cylinder, which has a cooling effect upon the intake valve.

2. A special coating of nickel-chrome may also be added to the valve head, for it provides resistance to the high temperatures and corrosive attacks of acids in the exhaust gases.

3. To enable them to withstand the heavy loading of opening the valve, the cams are required to be hardened to a good depth during manufacture.

4. Valve bounce occurs when the valves slam against the seat, which causes it to bounce slightly.

5. The heat, which is produced by combustion, transfers from the internal parts of the engine by conduction to the outer fins.

6. The coolant can circulate freely around the engine hot spots, which include the valve guides and valve seats, and the upper part of the cylinder walls where the pistons and piston rings slide up and down.

7. The purpose of the radiator is to allow fresh air to reduce the temperature of the coolant, which is done by flowing the coolant through tubes.

8. The ignition coil transforms low-voltage electricity from the battery into a high voltage. The high voltage has sufficient pressure to jump across an air-gap at the spark plug that operates at approximately 20,000 volts.



9. As the piston rises, it compressed the mixture in preparation for the timed ignition process. In this process, externally-generated energy initiates combustion via the spark plug.

10. The various engine management subsystems determine how much torque is generated. The engine management system's first and foremost task is to regulate the engine's torque generation by controlling all of those functions and factors in the engine management subsystems.

11. 每个汽缸有两个气门,一个是进气门,另一个是排气门。

12. 气门及其相关部件包括凸轮轴、气门、气门座、气门导管、气门弹簧和油封。

13. 根据凸轮轴的位置,气门机构可分为凸轮轴侧置式和凸轮轴顶置式。

14. 为了使得气门根据与曲轴的位置正确地开启和关闭,凸轮轴必须根据曲轴而正时。

15. 通常,风扇由四到六个弯曲的叶片组成。当风扇旋转时,叶片通过散热器抽吸空气。