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:	

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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:

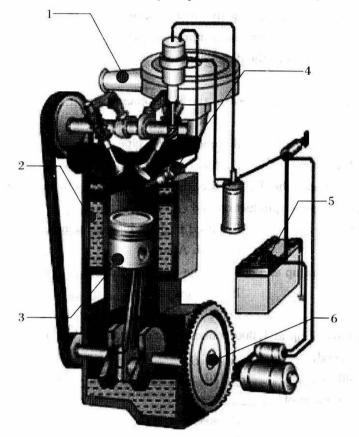
1. disc brake:	
2. spark ignition and compression ignition:	
3. crankshaft and camshaft:	
4. emission control system:	
5. multi-cylinder engine:	
6. clearance volume:	
7. gasoline mixed with air:	
8. jump across the gap of spark plug:	
9. turn through a half revolution:	
II. Multiple Choice: Circle the letter in the c	orrect answer. (每题 1 分, 共 20 分)
1. An automobile includes the following major	categories: the body, the engine,
and the electrical system.	
	ce C. the chassis D. the ignition system
2. With front drive arrangement or rear-whe	el-drive arrangement, transmit the
power to the drive wheels.	
A. piston engine	B. gears
C. gears and shafts	D. diesel engine

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

3.	is used to separate drive from the	engine to gearbox and to allow a smooth	١,
	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 nee	:d
	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 us	sed to connect the brake pedal to the brak	æ
	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	e 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	e to a cylinder, a (an) ignites th	ιe
	mixture.		
	A. electric spark B. battery	C. spark plug D. ignition system	
8.	The system is applied to prevent me	etal parts of the engine from rubbing agains	st
	each other.		
	A. emission control B. cooling	C. starting D. lubricating	
9.	The system is used to reduce the air	r 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	e nineteenth century include the following	ŗs
	except		
	A. the unreliable nature of the ignition syste	em	
	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 compressi	ion ignition engine because	
	A. a compression stroke is one of the four-st	rokes 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 compres	ssion ratio	
	D. both A and B		

13.	In the compression stroke, one main differen	nce	between a die	sel engine and a petrol	
	engine is that				
	A. the air is compressed in the sealed cylinder				
	B. the petrol engine has a comparatively very			atio	
	C. combustion occurs by spark ignition in the	die	sel engine		
	D. both A and B				
14.	The two basic types of fuel injection pumps us	sed	in the diesel e	ngine are and	
	in-line type.				
	A. out-line type	В.	low-pressure p	pipe	
	C. Distributor Pump Assembly	D.	fuel filter		
15.	Compared with the in-line pump, the DP	A.	has the follo	wing advantages: self-	
	lubricating, easy servicing, low cost of produ	ctio	n and		
	A. a common single element	В.	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	В.	The piston he	ad	
	C. An atmospheric pressure	D.	Thè mechanic	al 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	В.	steel		
	C. aluminum-alloy	D.	tın-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	В.	forged alloy s	teel	
	C. aluminum-alloy		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)

		wear	compress alignment	transmit	0.000 0.000 00 000000000000000000000000
	Combactible		angimient		
1.	He had burn marks	that from 1	the	_ of the rope	s on his skin.
2.	The phone won't w	ork if it isr	n't	_ up.	
3.	. Their routine work is to around the Mississippi.				
4.	The wheels are need	led	, please p	ut some oil o	n it.
5.	The carpets have be	en	, we have	to buy a nev	v one.
6.	Petrol is	, so we	should keep it fa	ar from the f	ire.
7.	Iron can	heat.			
8.	Their job is to	s	traw into blocks	for burning.	
9.	The bread will	i	f you don't cove	r it.	

system is becoming more and more complex.
2. The mass production of the automobiles has affected the society history in the 20t century most inventions.
3. The suspension system can absorb the road shock, which results in a smoother ride, safe handling and less mechanical wear.
4. When the piston move to its highest position inside the cylinder, we can say it is at To 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 capacity for approximately 270 liters of fuel.
8. Diesel's work turned out to be so successful by the first decade of the twentieth centur that the engine was named the diesel engine after his name.

1. With the introduction of computers and electronic devices, the modern vehicle's electrical

10. The bridge was gradually brought into _____.

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

- 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

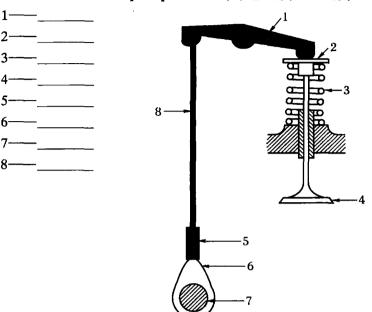
姓	名:
学	号:
得	分:
教师	签名:

I. Translate the following phrases and expresse	es. (毎題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 co	prrect 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 tim	es 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	·

	A. keep valves close when the camshaft is not lifting the valve
	B. keep valves open
	C. keep valve float
	D. keep valves bounce
5.	What type of material used is determined exactly by
٠.	A. the stress B. load temperature
	C. aging qualities D. all of the above
6.	Within the gasoline or the diesel engine, about of the energy is used to
٠.	drive the vehicle.
	A. 25% B. 33% C. 9% D. all of the energy
7.	What problems will occur if the engine temperature is too high?
	A. Overheating of the oil that causes more efficient use of the engine
	B. Overheating of the metal that leads to the loss of strength of the engine
	C. Excessive stresses between engine parts that may cause increases if friction, which
	may in turn cause excessive wear
	D. All of the above
8.	The function of the water jackets is to
	A. circulate the coolant through the cooling system
	B. remove heat from the cylinder block on cylinder head
	C. sense the temperature of the coolant
	D. remove heat from the coolant passing through it
9.	The water pump can circulate up to gallons of coolant per hour between
	the water jacket and radiator.
	A. 75 B. 750 C. 7,500 D. 75,000
10	. Compared with the fan on older vehicles, the advantage of the electric fan is that
	A. there is no frictional power loss
	B. there is no fan belts
	C. it is driven by the camshaft
	D. both A and B
11.	. In the following sentences, which one is correct?
	A. The ignition system can produce an electrical low-voltage spark
	B. The combustion in a gasoline engine must take place at a precise moment of time
	C. There is no cylinder order required when the air and fuel mixture is ignited
	D. The electrical current needs only 12 volt to jump across the spark plug gap
12.	. The ignition system uses a mechanical set of contact points and
	condensers.
	A. conventional B. electronic

	C. engine	D. both A and B				
13.	The function of the primary windi	ngs is to				
	A. transmit the high voltage from	the coil to the spark plug				
	B. capture the voltage					
	C. produce a magnetic field					
	D. change the electrical energy into a magnetic field					
14.	Which component is not included it	n the conventional ignition system?				
	A. Wiring	B. Electronic control unit				
	C. Spark plug	D. Ignition switch				
15.	The major function of the distribut	tor is to				
	$\boldsymbol{A}.$ interrupt the flow of current in	the low-voltage circuit very soon through the contact-				
	breaker points					
	B. direct low voltage to each spark	plug in the correct firing order				
	C. direct high voltage to each spar	k plug in the correct firing order				
	D. both A and C					
16.	The spark ignition engine can cha	nge the contained in fuel into kinetic				
	energy.					
	A. chemical energy	B. physical energy				
	C. electrical energy	D. solar energy				
17.	In the following sentences, which one is correct?					
	A. The spark ignition engine is an external-combustion engine					
	B. Today's spark ignition engine	s can inject the mixture formation directly into the				
	combustion chamber					
	C. By physical link with the acc	elerator pedal, the driver can directly control over				
	throttle valve opening on conve	ntional injection systems				
	D. The ignition subsystem controls the calculation of the fuel mass					
18.	When can the engine produce maximum power?					
	A. The throttle valve is fully open					
	B. The throttle valve is fully closed					
	C. Enough amount of air is inducted					
	D. The throttle valve is in its highest position					
19.		combustion is a mass ratio of				
	A. 1:14.7 . B. 14:1.7	C. 7:14.1 D. 14.7:1				
20.		ends on a ratio to operate at maximum				
	efficiency.					
	A. stoichiometric A/F	B. random				
	C. stoichiometric F/A	D. 1:14.7				

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)



- 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 positive	dilute bounce	seal transfer	dissipate boost	simultaneously warm-up			
1. The water soon in the sunshine.								
2. Before the comprehensive test, you'd better do some exercise.								

4. The company is taking a new measure to ______ their export trade.

3. The demonstrations in London and Pairs happened ______.

- 5. The electrical charge can be either _____ or negative such that like charges repel and opposite charges attract.
- 6. Who is responsible for the _____ of military supplies?
- 7. He was drinking a glass of wine _____ with water.
- 8. The ball _____ twice before hitting the net.
- 9. The mist quickly _____ as the sun rose.
- 10. Put a _____ here, it will help prevent oil leaking out.

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

1. 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。