

**SELF-STUDY COURSE 3010-G** 

# Solid Waste Management



# Environmental Health Sciences Self-Study Course SS3010

# Lesson 4: Solid Waste Management

### I. Lesson Consists of

A. Part I: 25 multiple choice questions
B. Part II: 25 multiple choice questions
C. Part III: 25 multiple choice questions
D. Part IV: 10 multiple choice questions

#### II. Reference

Salvato, J. A., Environmental Engineering and Sanitation. 4th ed. New York: John Wiley & Sons, 1992.

# III. Topics and Reading Assignments

Chapt	er 5 - Solid Waste Management		
A. C	omposition, Storage and Collect	20	(Page No.)
B. T	reatment and Disposal of Solid Wastes		662 to 679
C. SI	pecial Wastes		679 to 684
	esource Recovery		684 to 689
E, Ha	zardous Wastes		689 to 696
	cineration		696 to 716
	nitary Landfill		716 to 728
	mposting	500	
			729 to 760
Sum-			760 to 766

# IV. Suggested Supplementary Readings

Characterization of Municipal Solid Waste in the United States. Office of Solid Waste and Emergency Response, U.S. Environmental Protection Agency: EPA/S30-E-019, 1992.

Kharbanda, O. P., Stallworthy, E. A., Waste Management. Auburn House Publishers, 1990, ISBN: 0-86569-000-6

### References of Historical Significance:

Ehlers, V. M. and Steele, E. W. Municipal and Rural Sanitation. New York: McGraw-Hill, 1965.

#### V. Objectives

Upon successful completion of Lesson 4, students should be able to correctly:

- identify and study available disposal techniques and facilities with an understanding of the importance of recycling and resource conservation.
- demonstrate an understanding of the sources and characteristics of present day solid wastes
- examine the economics of solid waste collection, storage, and disposal in order to develop fiscal policies
- demonstrate an understanding of new developments in the collection and disposal technology and interpret predictions of future trends in solid waste generation and characteristics
- identify major sources of hazardous wastes and make correct decisions concerning proper disposal methods
- define and explain selected terms and acronyms associated with solid waste management
- demonstrate an understanding of the importance of solid waste management and its relationship to Federal, State, and local regulations
- demonstrate an understanding of the technology associated with sanitary landfills and incineration operations
- · develop an understanding of the opportunities and limitations of composting.

### Environmental Health Sciences Self-Study Course SS3010

## Lesson 4: Solid Waste Management

#### Part I: Multiple Choice

- 1. The average amount of solid waste generated, collected, and disposed of from a particular area is dependent on many local factors such as
  - a. time of the year
  - b. education and economic status of the people
  - c. whether the area is urban or rural
  - d. all of the above.
- The weight and shape of temporary waste storage containers must be kept within the limits that can be easily and conveniently handled by the collection crew, with the weight preferably not exceeding
  - a. 50 pounds
  - b. 3 pounds
  - c. 70 pounds
  - d. 25 pounds.
- 3. According to the United States Environmental Protection Agency, solid waste does not include
  - a. manures and crop residues that can be returned to the soil as fertilizer or soil conditioners
  - b. mining or milling wastes intended for return to the mine
  - c. solid or dissolved material in domestic sewage
  - d. all of the above.
- 4. Which of the following is not recommended for a refuse storage room?
  - a. a drained concrete floor
  - b. ample natural or artificial light and ventilation
  - c. temperature kept below 50°F
  - d. uncovered base.

5.	Which of the following is true about garbage stands?
•	<ul> <li>a. garbage stands should be screened to keep out birds and rodents.</li> <li>b. garbage cans should be painted for easy detection by collection crews.</li> <li>c. garbage stands should be convenient to the kitchen, in an airy shaded location d. built-in garbage or trash boxes, bins, or sheds are recommended.</li> </ul>
6.	Bulk containers or refuse bins are recommended where large volumes of refuse are generated, such as at
	<ul> <li>a. hotels and motels</li> <li>b. shopping centers and restaurants</li> <li>c. apartment houses</li> <li>d. all of the above.</li> </ul>
7.	The Consumer Product Safety Commission requires that refuse bins or containers must be able to withstand a hanging weight or force of pounds and a horizontal force of without overturning, with the force applied where tipping of the bin is that likely.
	a. 191; 70 b. shopping centers and restaurants c. 200; 100 d. 50; 100.
8.	The wastewater generated from washing out refuse bins and containers
	<ul><li>a. can be disposed of with the garbage</li><li>b. must pass through a grease trap before entering a sewerage system</li><li>c. should not be allowed to run onto the surface of the ground</li><li>d. all of the above.</li></ul>
9.	Added moisture used in maceration the handling and haul costs of solid waste
	a. increases b. decreases c. does not change d. sometimes increases or sometimes doesn't change.

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	-			٠	9			
10.	Frequency of collection depends on	e e						
	a. quantity of waste							
	o. time of year	D.				X		
	c. socioeconomic status of the area ser	rved						
	l. all of the above.	1704						
	in the or the above.							
11.	The transfer station should be located _	of	the colle	ction s	enina	aren		
		- 01	me cone	cuon :	SCI VICE	arca.		Ÿ.
8	on the perimeter						W W	
	at the busiest location					**		
	in the center					_		
	. none of the above.							
	in Hode of the tipe (e.			•	50			
12	reduces the final volume of wa	astes						
					3350			
а	. compaction					2		
	. maceration							
	pneumatic transport							
	a and b above.	282			2.6			
	* **							
3. A	according to the reference as of 1992, of	collection	cost is	•	of the	total co	ost of d	isposal
fe	or landfilled waste. (Please note that the	he costs o	f landfil	l and i	ncinera	ation ha	ve gre	atly
iı	ncreased in recent years, thereby chang	ging these	cost rat	ios.)			6-3	
		, ,						
a	more than 50%							
b	less than 50%							
C.	equal to 50%							
d	none of the above.		,					45
						0		
4. Ir	business districts, refuse, including g	arbage fro	om hotel	s and	restaur	ants, sh	ould be	
C	ollected daily, except on			`				
a.	Sundays						il. a	
	Saturdays (usually the busiest days)							
	Mondays							
	Saturdays and Sundays.						ii	
	,	(4)						
				•				•

Part I

Page 5

1. Table 1.		
Environmental	113-146	
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a. ten
b. two
c. three
d. five.

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-			*
	·		
	W. W. O. L. W. W. O. T. W.		20
	d. all of the above.		
	c. vesicular exanthema in swine		
	b. hog cholera		
	a. trichinosis to humans		
19.	The spread of is (are) encouraged when uncooked garbage is fed to hogs		
		ň	
	d. 2 hours.	2	
	c. 15 minutes		
	b. 30 minutes		
	a. I hour		a.
18.	. It is recommended that all garbage fed to hogs be properly boiled for		
	d. all of the above.		
	c. a fire hazard		10 E
	a. a cause of water pollution     b. an odor and smoke nuisance		
17	. Open dumps should be considered		
	d. Outlat at sea, memeration, and santary fandituming.		•
	<ul><li>c. composting, incineration, and sanitary landfilling</li><li>d. burial at sea, incineration, and sanitary landfilling.</li></ul>		
	b. incineration, pyrolization, and anaerobic digestion		
	a. wet oxidation, sanitary landfilling and compaction		
	se s		
. 16	6. The commonly acceptable refuse disposal and treatment methods are		

15. The National Safety council reported that solid waste collection workers have an injury

frequency approximately \_\_\_\_ times the national average for all industry.

- 20. For hog feeding to be satisfactory, in addition to cooking of garbage, it is necessary to accomplish all of the following except
  - a. rat-proof concrete feeding platforms and structures
  - b. allow garbage to cool down by adding 20% water
  - c. remove manure and leftover waste daily
  - d. clean the hog pens and flush the feeding platforms and troughs frequently.
- 21. The grinding of garbage is an acceptable method of
  - a. garbage disposal
  - b. volume reduction
  - c. wet oxidation
  - d. energy recovery.
- 22. The home grinding system shreds garbage into small particles while being mixed with water and is discharged to the
  - a. ocean
  - b. sanitary landfill
  - c. house sewer
  - d. high-temperature incinerator.
- 23. The dumping of garbage and other refuse at sea in the united States is
  - a. permitted at depths greater than 100 feet
  - b. considered a sanitary practice if weather conditions, distance from shore, and depth of water requirements are met
  - c. prohibited
  - d. not very cost-effective.
- 24. Various garbage reduction processes extract biological fats that are then used in the manufacturing of
  - a. soaps and glycerines
  - b. glue and cement
  - c. grouting and calk
  - d. fertilizer and cattle feed.

- 25. Which of the following is (are) true about composting?
  - a. it has been a great success in the United States
  - b. it may come from municipal solid waste
  - c. it results in a poor fertilizer
  - d. both b and c above.

#### Part II: Multiple Choice

1.	Composting is	the	controlled	decay	of	organic	matter	that may	come	from	ı
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- a. sewage sludge
- b. agricultural waste
- c. organic industrial waste
- d. all of the above.

2	TITE 1. CAL CIT.	
4.	Which of the following composting methods will require limited	land enace?
	b I b I was	autu space.

- a. beccari method
- b. bangalore process
- c. fairfield-hardy process
- d. none of the above.

3.	is a thermochemical process for the conversion of complex organic solids in the
	absence of added oxygen, to water, combustible gases, tarry liquids, and stable residue.

- a. composting
- b. incineration
- c. wet oxidation
- d. pyrolysis.

# 4. Which of the following allows for 95 percent or more volume reduction of municipal solid wastes?

- a. incineration
- b. pyrolysis
- c. high-temperature incineration
- d. both b and c above.

#### 5. Volume reduction can be achieved by

- a. baling
- b. landfill equipment
- c. pulping
- d. all of the above.

6	High-density compaction of solid wastes is accomplished by compression to a density of more than
	a. 75.5/lb ft <sup>3</sup>
	b. 60.5/lb ft <sup>3</sup>
	c. 66.5/lb ft <sup>3</sup>
	d. none of the above.
7	Which of the following is true about disposal of animal wastes?
	a. If wet manure is plowed under, fly eggs present will not hatch.
	b. Composting of manure takes advantage of the inclination that larvae have to move out
	and away from moist manure in search of a dry place to pupate.
	c. Where a small number of animals are kept, the manure should be collected once a week.
	d. Odors associated with the handling and disposal of these wastes do not determine the
	disposal method or its location.
8.	Shredding reduces the volume of wastes to about or less of the original bulk.
	a. 60 percent
	b. 50 percent
	c. 40 percent
	d. 30 percent
0	Contains used for treatment and dismost of a line 1
9.	Systems used for treatment and disposal of animal wastes include
	a. field spreading, oxidation ditch, and incineration
	b. plow-furrow cover, aerated lagoon, and wet oxidation
	c. irrigation, anaerobic digestion, and drying
	d. all of the above.
	d. all of the above.
10	Dood animals are hest disposed in
10.	Dead animals are best disposed in
6	a. an incinerator or rendering plant
	b. a separate area of sanitary landfill
	c. a composting bed
	d. either a or b above.
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Part II

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11	. The EPA believes that only	of the waste s	tream can be	recovered	economic	-lar
11	. 110	_ 0x === 11=== 5.	can be	iccovered.	CCOHOIMC	4.5
	a. 26 percent					×
	b. 36 percent					
	c. 56 percent					
	d. 76 percent.	A	253			3
	**			175		
12	. The disposal of used tires presen	its a problem, bi	it shredded t	ires may be	e used as	2
	a. a source of heat for homes		•		•	S <b>*</b> S
	b. fuel for industries	- T		-		
	c. an asphalt additive to reduce		ing			
	d. a supplemental fuel for incine	erators.				
12	Bagayyaa waayyayy and radyotian	. of solid	-11-1 -44		3* 3	
13.	Resource recovery and reduction	i of solid wastes	snound start			
	a. at the point of generation					
	b. at the sanitary landfill					
	c. in the home	•		63		
	d. at the transfer station.	8	•	٠.	N .	
14.	can be recovered from refi	use by burning i	t in a refract	ory lined in	icinerator	or water-
	wall incinerator.	6.				
	***					
	a. glass					-
	b. aluminum			•		139
	c. ferrous metal	al I	*			
	d. energy.					
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15.	Acidic conditions inc gio	wat of methane	-producing o	aciena.		
	a. increase	61	-,		<b>.</b> α	
	b. inhibit					
	c. do not affect	(*)		•	(193) (193)	
	d. none of the above.	糖	•		<b>(2)</b>	
						×
		(4)				1.50
					*	•
	₩	•				

- 16. Methane in the presence of air is explosive at concentrations between
  - a. 5 and 15 percent
  - b. 3 and 5 percent
  - c. 20 and 25 percent
  - d. 50 and 60 percent.
- 17. Oil that has had a physical and chemical impurities removed and that by itself or when blended with new oil or additives, is substantially equivalent or superior to new oil intended for the same purposes, is called
  - a. re-refined oil
  - b. substandard oil
  - c. terrestrial oil
  - d. subsurface oil.
- 18. What does RCRA stand for?
  - a. Recovery, Conservation, and Refuse Administration
  - b. Radioactive Chemical Recovery Administration
  - c. Radioactive Chemical Recovery Act
  - d. Resource Conservation and Recovery Act.
- 19. Hazardous wastes include which of the following types of substances?
  - a. chemical and biological
  - b. radioactive
  - c. explosive
  - d. all of the above.
- 20. Which of the following is not one of the four characteristics of hazardous wastes as defined by the Environmental Protection Agency?
  - a. radioactivity
  - b. toxicity
  - c. explosive
  - d. ignitability.

#### 21. The Toxic Substances Control Act (TSCA) of 1976

- a. mandates government (Federal and State) control of hazardous wastes from their point of generation to their point of ultimate disposal
- b. regulates the production and use of chemical substances that may present an unreasonable risk of injury to health or environment
- c. requires that all toxic substances transported from one point to another by air, land, or sea be properly documented through an approved manifest system
- d. regulates all hazardous wastes generated at health care facilities through Federal and State governments.

#### 22. The goal for management of hazardous waste should be

- a. "safe disposal methods"
- b. "minimal impact on the environment"
- c. "zero discharge"
- d. all of the above.

#### 23. The most common problems associated with the disposal of hazardous waste are

- a. public opposition and spills
- b. groundwater pollution from lagoons and unauthorized dumping
- c. leachate from landfills, dumps, sludge disposal, and other land disposal systems
- d. all of the above.

#### A properly designed and controlled incinerator is satisfactory for burning combustible refuse as long as

- a. the incinerator is not located in the downtown area
- b. sufficient quantities of refuse can be provided
- c. air pollution standards can be met
- d. the furnace is cooled regularly.

#### 25. The batch feeding of incinerators

- a. helps maintain even temperatures
- b. helps maintain high temperatures
- c. promotes spalling and loosening of tiles
- d. both a and b above.

#### Part III: Multiple Choice

- 1. Additional fuel is needed to incinerate refuse
  - a. with 30 percent or less rubbish
  - b. with 50 percent or more moisture
  - c. with 10 percent or more metals
  - d. both a and b above.
- 2. The amount of residue left after incineration is approximately
  - a. 10 to 20 percent of the original volume
  - b. 25 to 50 percent of the original volume
  - c. 55 to 65 percent of the original volume
  - d. none of the above.
- 3. Incinerators are rated in terms of
  - a. percent fuel capacity per day
  - b. BTU's per day
  - c. tons of burnable waste per day
  - d. cubic feet of solid waste per day.
- 4. To provide enough refuse for an incinerator to continuously operate, a refuse storage pit/bin must hold approximately
  - a. 1 day of refuse
  - b. 2 days of refuse
  - c. 3 days of refuse
  - d. 4 days of refuse.
- 5. In the rectangular furnace, the grates are arranged in
  - a. arches
  - b. rectangles
  - c. tiers
  - d. circles.

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- 6. The three essentials for combustion in an incinerator are
  - a. temperature, time, and heat
  - b. time, temperature, and moisture
  - c. temperature, heat and fuel
  - d. time, temperature, and turbulence.
- 7. Modern furnace walls are usually lined with
  - a. tile or have water walls
  - b. plastic and molten slag
  - c. brick with fire-rods
  - d. steel.
- 8. The second step of the combustion process in an incinerator requires a high temperature of at least
  - a. 1500° to 1600°F
  - b. 1500° to 1800°F
  - c. 1900° to 2000°F
  - d. 1800° to 1900°F.
- 9. The furnace temperature of an incinerator can be controlled by adjusting
  - a. The amount of overfire air
  - b. the amount of under fire air
  - c. the induced draft fan
  - d. both a and b above.
- 10. The temperature of the gases leaving the furnace is reduced by
  - a. spraying with water
  - b. dilution with cool air
  - c. passing through heat exchanges
  - d. all of the above.

11.	When considering a site for a sanitary landfill, both county and region administration of the site should be considered because	nal-wide planning ar
	definition of the property of companies and processes	
	<ul> <li>a. it could result in shorter travel distances and a lower unit of cost for</li> <li>b. the results could be more efficient and a lower unit cost for operation</li> <li>c. the results could be more efficient and there will be less citizen op</li> <li>d. there will be less citizen opposition and shorter travel distances.</li> </ul>	ion
12.	The normal economical hauling distance to a refuse disposal site is us	sually between
	a. 5 to 10 miles	
	b. 10 to 15 miles	
	c. 15 to 20 miles	
	d. 20 to 25 miles.	
13.	When trying to establish economical hauling, what is most important	<b>?</b>
	a. hauling time	
	b. hauling distance	
	c. means of hauling	
	d. what is being hauled.	
14.	A landfill site should not.	
	1. 1	
	<ul><li>a. be located near a major highway</li><li>b. be given an attractive entrance and approach road</li></ul>	
	c. house equipment on site	
	d. be inexcessible during bad weather conditions.	
	d. De mexeessible during bad weather conditions.	(S. 11)
15.	A county or regional landfill should provide enough area for ap	eriod of operation.
	a. 5- to 10-year	
	b. 10- to 15-year	
	orani tami mono mono de o a ci di	

c. 15- to 25-year d. 20- to 40-year.

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16.	In order to determine the dep following must be determine		andfill can be op	perated, which	of the
	<ul><li>a. location of bedrock</li><li>b. groundwater table</li><li>c. finished grade</li><li>d. all of the above.</li></ul>				e e
17.	In good soil and with approplakes, or other surface bodies		ites should be at	least from	n streams,
	<ul><li>a. 200 feet</li><li>b. 500 feet</li><li>c. 700 yards</li><li>d. 1000 feet.</li></ul>		vi n		
18.	After a landfill site is closed, having a low permeability, g	The same and the s			
	a. 5 feet b. 36 inches c. 2 feet d. 28 inches.		¥		
19.	Leachates containing primari	ly low molecular weigh	t organic compo	ounds are best t	reated by
	<ul><li>a. biological methods</li><li>b. physical-chemical method</li><li>c. physical methods</li><li>d. both a and b above.</li></ul>	ls			
20.	A relatively porous landfill ea	arth cover will permit	•		
	a. the escape of gases b. greater infiltration and lea c. both a and b above d. none of the above.	chate production			

Part III

- 21. The most suitable soil for cover material at a landfill site is one that is
  - a. easily worked and minimizes infiltration
  - b. relatively porous and rich in nitrogen
  - c. most convenient to the site and always available
  - d. dug from the trenches where the waste will be deposited.
- 22. Which of the following is not considered an advantage to using shredded solid waste landfill?
  - a. it does not cause odors
  - b. it may not require daily earth cover
  - c. it will readily absorb precipitation
  - d. it reduces insect breeding.
- 23. The best way to control deep fires in a sanitary landfill is to
  - a. inject water under the cover material at strategic points throughout the landfill
  - b. separate the burning refuse and dig a fire brake around the burning refuse
  - c. smother the burning area with landfill liner made of polymeric or asphaltic materials
  - d. let the area burn itself out.
- 24. Before trying to convert an "open dump" into a sanitary landfill, you must first
  - a. remove all previous waste to another site
  - b. institute a rat-poisoning program 2 weeks before conversion
  - c. develop a plan of operation, supervision, maintenance, and a drawing showing your proposed plans
  - d. both b and c above.
- 25. The best sanitary landfill method for an area with rolling terrain is the
  - a. low-area method
  - b. valley or ravine area method
  - c. trench method
  - .d. area or ramp method.

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#### Part IV: Multiple Choice

- 1. The life of a tractor at a landfill is figured to be about
  - a. 6,000 hours
  - b. 8,500 hours
  - c. 10,000 hours
  - d. 12,500 hours.
- 2. The valley or ravine landfill method utilizes "lifts" from the bottom up with depths usually of
  - a. 6 to 8 feet
  - b. 8 to 10 feet
  - c. 10 to 12 feet
  - d. 12 to 14 feet.
- 3. One piece of refuse-compaction and earth-moving equipment is needed at the landfill site for approximately each
  - a. 40 loads per day
  - b. 60 loads per day
  - c. 80 loads per day
  - d. 100 loads per day.
- 4. The size and type of machinery needed at the sanitary landfill is dependent on
  - a. the amount of solid waste handled
  - b. the availability of cover material
  - c. the compaction to be achieved
  - d. all of the above.
- 5. A dragline may be used at a landfill site for
  - a. digging trenches
  - b. stockpiling cover material
  - c. placing cover material over refuse
  - d. all of the above.

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e e		
6. The direction of operation of a sanitary landfill shou	ld be	
a. against the prevailing wind	=	
b. with the prevailing wind	•	_
c. perpendicular to the prevailing wind		
d changed daily to be new a !!		a.
d. changed daily to be perpendicular to the prevailing	g wind.	•
7. Compression or shredding of bulley abiasts 1.6		
7. Compression or shredding of bulky objects before la	ndfilling them will	
a. improve compaction of the fill		
b. reduce land volume requirements		
C. allow for more wife		
c. allow for more uniform settlement		
d. all of the above.	2.	
9 Determined to the second		
8. Determining what a landfill can be used for when cor	npleted should be	planned.
a. when the landfill is half full		
b. before you build the landfill		
c. when the landfill is full		
d. any time during the operation of the landfill.	**	
0 7		
9. Large items that are not salvaged should be	*	
a antiferration to distribute		
a. set directly into the landfill		
b. placed in an alternative location		
c. compressed or shredded	, II' a	
d. any of the above.		
10. Depending on the size of the community, there should landfill site and		
landfill site and workers nor 1000 - 13 c	be a minimum of	one worker at a
landfill site and workers per 1000 yd <sup>3</sup> of wopen.	aste dumped per d	ay that the site is
a civ		
a. SIX		
b. four		
c. three		
d. two.		8
		•
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**SELF-STUDY COURSE 3010-G** 

# **Answer Keys**



## Self-Study Course SS3010 Environmental Health Sciences Answer Keys (Page No.)

	· · · · · · · · · · · · · · · · · · ·	Lesson 4: Par	<u>t1</u>	
1. D (666)	6. D (672)	11. C (676)	16. C (679)	21. A (680)
<sup>-</sup> 2. C (672)	7. A (672)	12 <sub>.</sub> D (676)	17. D (679)	22. C (680)
3. D (665)	8. D (674)	13. C (675)	18. B (679)	23. C (680)
4. D (672)	9. A (674)	14. A (675)	19. D (679)	24. A (681)
5. C (672)	10. D (675)	15. A (676)	20. B (680)	25. D (760)
		Part II		
1. D (760)	6. C (683)	11. C (690)	16. A (696)	21. B (702)
2. D (762)	7. B (687)	12. B (688)	17. A (688)	22. C (706)
3. D (681)	8. C (683)	13. A (689)	18. D (696)	23. D (701)
4. D (682)	9. D (687)	14. D (694)	19. D (697)	24. C (717)
5. D (683)	10. D (686)	. 15. B (695)	20. A (699)	25. D (717)
	<del></del>	Part III		
I. D (719)	6. D (723)	11. B (730)	16. D (735)	21. A (746)
2. D (720)	7. A (723)	12. B (732)	17. A (743)	22. C (747)
3. C (722)	8. B (723)	13. A (732)	18. C (743)	23. B (748)
J. D (719)	9. D (726)	14. D (735)	19. A (744)	24. D (758)
5. C (723)	10. D (726)	15. D (735)	20. C (744)	25. D (749)
	<del></del>	Part IV		
. C (750)	3. C (750)	5. D (753)	7. D (754)	9. D (754)
. В (749)	4. D (750)	6. B (754)	8. B (759)	10. A (755)