Q. No. 2:- (Explain with neat Sketches any Two out of Three)	10 Marks	
 Elaborate Micro economics & Macro economics concept and its effect on economy. Explain the Concept of Neo-classical economics. Evalsin the difference between ecological economics and natural resource economics. 		
	10 Marks	
 Explain Externalities in detail. Explain characteristics of common pool resources. 		
Q. No. 4:- (Draw sketch and explain in details any One out of Two)	10 Marks	
 Discuss Pigovian tax. Elaborate polluter pays principle with example. 		
Q. No. 5:- Discuss common pool resources, public goods with examples.	10 Marks	
Q. No. 6:- Explain Coase Theorem.	10 Marks	
Q. No. 7:- Elaborate tragedy of commons along with one example.	10 Marks	
		·
		*

The name given to a tax which makes the firm pay for all the pollution damage it creates with each extra unit of output.

1. For the following five questions, match the term with its correct definition.

Q. No.1:- MCQ/Define//Fill in the blanks/Match the pairs etc.

2. Answer any FOUR out of the remaining.

Instructions: - 1. Q. No. I is compulsory

2. The value we place on an asset now as regards functions which might be exploited sometime

6. First law of Thermodynamics

Tradeable permits

Option value

3. Existence value Coase theorem

Pigouvian

20 Marks

Marks: 60

Sem.:- I

DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY,

End Semester Examination - Winter 2019

Subject: - Environmental Economics Subject Code: - MAREA20100003

Date: - 18/11/2019 Time: - 3 Hrs.

Branch: M. Arch (ENV.)

LONERE – RAIGAD -402 103

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Future generations have the same opportunities as current ones

All resources are put to their highest valued use

1. Consumer surplus is maximized

Everybody can be made better off

Profit is maximized

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 Ξ

4. In environmental economics, an outcome is said to be economically efficient if

Ξ

3. Establishes the principle that energy can neither be created nor destroyed.

2. First law of thermodynamics

1. Pigouvian

Tradeable permits

5. Coase theorem. 4. Option value

First law of thermodynamics

1. Existence value

in the future.

2. Pigouvian

Tradeable permits

6. Coase theorem

5. Option value

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	Free 4.	W м 12 1 а 4 3 2 :	1. 2. 3. 4. Accol	1. 2. 3. 4. 4. 5. In a p	The with a wind of the wind of	Any the single 1 2 3 3 5 5
Circle 1 2 2 3		2. The higher the price, the larger the quantity demanded. 3. The higher the price, the larger the quantity demanded. 4. The higher the price, the smaller the quantity demanded 10. What does efficiency means 1. Maximization of society's total net benefits. 2. Maximization of an individual's total net benefits. 3. Both of the above	Maximum, Less than maximum, but not zero. Zero. Negative. According to the law of demand, The higher the price the lawar the quantity sumfled.		the Acc	•
rom supplying public goods. for environmental causes understates activist organizations) would be lower		d. (1)		ith their residuals from r maximum profit. When	tain ecosystems, the economy and (1)	tal impacts if thewithin (1)

15C7F437B39A023D0438E6F0DD40B48B

All of the above are correct.

13. Economics approach is called anthropocentric because

 Ξ

Environmental resources are evaluated based on their uses to human beings.

- Environmental resources are evaluated based on their uses to all living beings, human or
- Even a small environmental degradation from an action is considered unacceptable,
- Even a large environmental degradation from an action is considered acceptable, if there are at least some benefits to human beings irrespective of the magnitude of benefits of the action to human beings.

14. How much would you be willing to pay for 10% improvement in air quality is likely to depend on

- The current level of air quality.
- Your income level.
- Your attitude/preference for environmental quality

15. Use the two characteristics of public goods - non-rivalryness and non-excludability -- to identify which of the following is the best example of a public good.

 Ξ

- The Disney World amusement park
- A textbook in environmental economics
- An emergency warning siren located on top of the tallest building on your campus
- 4. Garbage collection service provided by a local government on a monthly fee basis

 Ξ

16. The threshold level of emissions is

- Zero level of emissions.
- The minimum level of emissions to begin to cause damage
- The maximum level of emissions.

4. None of the above. 17. The Coase theorem states that the private sector can achieve environmental efficiency, as long. (1) as property rights are clearly assigned

- 2. False

18. A beach is best described as:

Ξ

- A private good
- An open access good
- A public good
- A common pool resources

19. Harding's "Tragedy of the Commons" is a particularly instructive example of how people manage common resources. What are the defining characteristics of common pool resources?

- Excludability and subtractability
- Common use and privatization
- Accountability and monitoring

None of the above

All of the above

20. A mixed economy:

Allocates resources via supply but not demand

 Ξ

- Allocates resources via demand but not supply
- Allocates resources via supply & demand
- Allocates resources via market forces and govt. intervention

End Semester Examination – OCT/NOV - 2019

Branch: M.Arch (GEN) Sem.:- III

Subject:- Advanced Landscape Design & Materials

Subject Code: - (MAR20300003) Marks: 60

Date: - 18/11/2019 Time: - 3 Hrs.

Instructions: - 1. Q.No. 1 is compulsory

2. Answer any FOUR out of the remaining.

Q. No.1:- a) Match the following

4 Marks

- Parterre Chinese garden
 Ha- ha walls Mughul Garden
- 3. Char-bagh French Garden
- 4. The summer Palace English Garden

Q. No.1:- b) Answer in 1 or 2 sentences

16 Marks

- 1. Define Glade.
- 2. Explain Land Reclaimation.
- 3. What is Grading?
- 4. State difference between climbers and creepers.
- 5. Explain Terracing.
- 6. State difference between Monoecious and Dioecious plants.
- 7. Define Peristyle.
- 8. Define Espalier. Draw and name different patterns.

Q. No. 2:- State and explain with sketches any 5 structures built in gardens (Garden Structures).

10 Marks

Q. No. 3:- How to design a Rain Garden? (Support with sketches)

10 Marks

Q. No. 4:- Explain in detail English Garden style. Include history and characteristics.

10 Marks

о Тош!ош-		
a. Topiaryb. Parterre		
c. Quincunx		
c. Quincunx		
O. No. 6:- Short no	te with Diagram: DEWATS	10 Marks
Q. 110.00 Display		
Q. No. 7:- State an	l Explain characteristics of Mughal Gardens.	10 Marks
		57 6

End Semester Winter Examination – NOV - 2019

	:- Ad	rch (GEN) vanced Building Technologies (MAR20300004) 1/2019	Sem.:- III Marks: 60 Time: - 3 Hrs.	
 Instru	 iction	is: - 1. Q.No. 1 is compulsory		
		2. Answer any FOUR out of the remaining.		
Q. No.1	l:- MC	Q/Define//Fill in the blanks/Match the pairs etc.		20 Marks
1.	Write	any 4 major components of HVAC system		
2.	Postm	nodernism is a broad movement that developed in across philosophy, the arts, arc	the chitecture, and crit	icism, ma rking a
	depar	ture from modernism		
	b. c.	Beginning of 20 th century Mid- to late 20th century Mid- to late 19th century None of above		
3.	What	are the 3 elements of the fire triangle?		
4.		extinguishers are designed for use on flam	mable metals	
	b. c.	Class A Class B Class C Class D		
5		ny 4 systems that can be monitored or controlled I	oy a BMS	

Q. No. 2:	- Explain with neat Sketches any Two out of Three	10 Marks
ii P	odernism ost-modernism dustrial revolution and its impact on construction Industry	
Q. No. 3:	- Write Short notes on any Two out of Three	10 Marks
ii. S	CTV camera ick Building Syndrome essons from failures	
Q. No. 4	- (Draw sketch and explain in details any One out of Two)	10 Marks
	assive fire protection system ctive fire protection system	
Q. No. 5	:- Write a note on AESS (Architectural Exposed Structural Steel) rith supporting sketches	10 Marks
Q. No. 6	:- Discuss in detail HVAC system with supporting hand sketches	10 Marks
		10 Marks

****Paper End****

End Semester Winter Examination – 2019

Branch: M. Arch.

Sem .:- 111

Subject:- Law and Legislation for Environmental Control

Subject Code: - MAREA20100005

Marks: 60

Date: - 20.11.2019

Time: - 3 Hrs.

Instructions:

1. The First question is compulsory

2. Answer any FOUR out of the remaining.

Q. NO. 1.

Write down Definitions of following (20 Marks)

- 1. "Factory" as defined in factories Act.
- 2. "Adolescent" as defined in factories Act.
- 3. "Hunting" as defined in Wild Life (Protection) Act.
- 4. "Forest produce" as defined in Indian Forests Act.
- 5. "Antiquity" as defined in Ancient Monuments and Archeological Sites and Remains Act.
- 6. "Protected Monument" as defined in Ancient Monuments and Archeological Sites and Remains Act.
- 7. "Hazardoud waste" as defined in Hazardous wastes management and handling rules.
- 8. "Biologicals" as defined in Bio medical wastes management and handling rules.
- 9. "Bio degradable waste" as defined in Solid wastes management rules.
- 10. "Domestic Hazardous waste" as defined in Solid wastes management rules.

Q. NO.2. Write Short note on any two of following three

(10 Marks)

- a General duties of occupier as provided in Factories Act
- b. General duties of manufacturers as provided in Section 7-B of Factories Act

Q. NO. 3. Explain, duties of occupier as provided in Rule 4 of Bio Medical Waste Management rules 2016. (10 Marks) Q. NO. 4. Discuss jurisdiction and powers of Appellate Authority as provided in National Environment Appellate Authority Act. (10 Marks) Q. NO. 5. Explain preservation of protected monuments by agreements. (10 Marks) Q. NO. 6. Explain, duties of waste generators as provided in Rule 4 of Solid Waste Management rules 2016. (10 Marks)	c. Latrines and urinals as provided in Section 19 of Factories Act	
Q. NO. 4. Discuss jurisdiction and powers of Appellate Authority as provided in National Environment Appellate Authority Act. Q. NO. 5. Explain preservation of protected monuments by agreements. Q. NO. 6. Explain, duties of waste generators as provided in Rule 4 of Solid Waste Management rules 2016. Q. NO. 7. General restrictions on Undertaking Prospecting and Mining operations, comment in 100 Marks)	and the state of security as provided in Rule 4 of Rio l	Medical Waste Management
Q. NO. 4. Discuss jurisdiction and powers of Appellate Authority as provided in National Environment (10 Marks) Q. NO. 5. Explain preservation of protected monuments by agreements. (10 Marks) Q. NO. 6. Explain, duties of waste generators as provided in Rule 4 of Solid Waste Management rules 2016. (10 Marks)		(10 Marks)
Discuss jurisdiction and powers of Appellate Authority as provided in National Environment (10 Marks) Q. NO. 5. Explain preservation of protected monuments by agreements. (10 Marks) Q. NO. 6. Explain, duties of waste generators as provided in Rule 4 of Solid Waste Management rules 2016. (10 Marks)	rules 2016.	
Discuss jurisdiction and powers of Appellate Authority as provided in National Environment Appellate Authority Act. (10 Marks) Q. NO. 5. Explain preservation of protected monuments by agreements. (10 Marks) Q. NO. 6. Explain, duties of waste generators as provided in Rule 4 of Solid Waste Management rules 2016. (10 Marks)		
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Appellate Authority Act. Q. NO. 5. Explain preservation of protected monuments by agreements. (10 Marks) Q. NO. 6. Explain, duties of waste generators as provided in Rule 4 of Solid Waste Management rules 2016. (10 Marks) Q. NO. 7. General restrictions on Undertaking Prospecting and Mining operations, comment in		
Appellate Authority Act. Q. NO. 5. Explain preservation of protected monuments by agreements. (10 Marks) Q. NO. 6. Explain, duties of waste generators as provided in Rule 4 of Solid Waste Management rules 2016. (10 Marks) Q. NO. 7. General restrictions on Undertaking Prospecting and Mining operations, comment in	Discuss jurisdiction and powers of Appellate Authority as provide	ed in National Environment
Q. NO. 5. Explain preservation of protected monuments by agreements. (10 Marks) Q. NO. 6. Explain, duties of waste generators as provided in Rule 4 of Solid Waste Management rules 2016. (10 Marks) Q. NO. 7. General restrictions on Undertaking Prospecting and Mining operations, comment in		(10 Marks)
Q. NO. 6. Explain, duties of waste generators as provided in Rule 4 of Solid Waste Management rules 2016. Q. NO. 7. General restrictions on Undertaking Prospecting and Mining operations, comment in	Appendic Additions, Feet and the Control of the Con	
Q. NO. 6. Explain, duties of waste generators as provided in Rule 4 of Solid Waste Management rules 2016. Q. NO. 7. General restrictions on Undertaking Prospecting and Mining operations, comment in		하시스 시간시간 사회 제공(4) 전
rules 2016. Q. NO. 7. General restrictions on Undertaking Prospecting and Mining operations, comment in	Q. NO. 5. Explain preservation of protected monuments by agre-	ements. (10 Marks)
rules 2016. Q. NO. 7. General restrictions on Undertaking Prospecting and Mining operations, comment in		
rules 2016. Q. NO. 7. General restrictions on Undertaking Prospecting and Mining operations, comment in	O NO 6 Explain duties of waste generators as provided in Rule	e 4 of Solid Waste Management
Q. NO. 7. General restrictions on Undertaking Prospecting and Mining operations, comment in	196 PAGE 1 TO A	(10 Marks)
Q. NO. 7. General restrictions on Undertaking Prospecting and Mining operations, comment in	Tules 2010.	
Q. NO. 7. General restrictions on Undertaking Prospecting and Mining operations, comment in		
Q. NO. 7. General restrictions on Ordertaking (10 Marks)	O. NO. 7. Conoral restrictions on Undertaking Prospecting and	Mining operations, comment in
- AIGM OI full Millies and Millier and Greek for the first of the firs	view of the Mines and Minerals Act.	(10 Marks)
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End Semester Examination – Winter 2019

Branch: M. Arch (ENV) Subject:- Climate Responsive Design- I (MAREA10100002)	Sem.:- I Marks: 60
Date: 03 / 12/ 2019	Time: - 3hrs
Instructions: - 1. Q. No. I is compulsory	
2. Answer any FOUR out of the remaining.	
3. Illustrate your answers with neat sketches, diagram etc.	. wherever necessary.
	(Marks)
Q. No.1:- Define & briefly explain the following:	20 Marks
a) Earth- Sun relationship	
b) Bio-climatic chart	
c) Altitude & Azimuth angles	
d) Thermal Comfort	
e) Daylight & ventilation	
Q. No. 2:- Explain with neat Sketches: (Any Two)	10 Marks
a) Mahoney Tables	
b) Courtyard planning for Hot-dry climate type	
c) Perimeter to Area (P/A) ratio	
Q. No. 3:- What is the difference between climate & weather? Elaborate	-
studying climatology.	10 Marks
Q. No. 4:- What is a psychrometric chart? How can it be used to evaluat	e the comfort conditions for
a particular climate type ?	10 Marks
Q. No. 5:- With the help of a case, explain passive daylighting & ventilat	ion strategies with respect to
any climate type.	10 Marks
Q. No. 6:-What is the purpose of thermal comfort scales? Briefly explain	n the use of 'effective
temperature nomogram' & 'bio-climatic chart' .	10 Marks
Q. No. 7:- State the thermal balance equation & explain all the terms &	formulae related to the
equation	10 Marks
——————————————————————————————————————	



DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LONERE - RAIGAD -402 103 End Semester Winter Examination - Dec - 2019

Branch: M.Arch (General)	Sem.;÷I
Subject: - Contemporary Architecture: Theories & Trends (MAR10100002)	Marks: 60
Date: 03/12/2019	Time: - 3 Hr.
Instructions: - 1. The First question is compulsory	
2. Answer any THREE out of the remaining.	
Q. No.1:- Fill in the blanks (any Five)	15 Marks
1. The most elegant bridges have been designed by structural engineer archite	ct
2. The only lady architectof deconstructivist era.	
3. The Bauhaus was established inin Germany.	
4. The gigantic alien like building style is	
5. The style Deconstructivism is characterized by an absence of,	
6is also known as Structural Expressionism, is a type of Late	Modern architectural
style that emerged in the 1970s.	
7. The term "Less in More" was coined by	
Q. No. 2:- Explain the Architectural style, features and about pioneer architect of the	building "Heydar
Aliyev Center, Baku, Azerbaijan".	15 Marks
Q. No.3:- Compare with the advantages and disadvantages according to climate, the	building materials
used in the Modern, Postmodern and deconstrictivist style to the materials in Art No	ouveaue and Art &
Crafts Movement in your own view.	15 Marks
Q. No. 4: - Elaborate the ideals behind the style "Critical Regionalism" with suitable	building of its Style
	15 Marks
Q. No. 5: -When and where the Industrial revolution was started? What were its effe	cts on the building
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DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LONERE - RAIGAD -402 103 End Semester Winter Examination - DECEMBER - 2019

Branch: M.Arch (Environmental Architecture) First Year Sem.:- 1 Subject:- Green Building Materials and Technology (MAREA10100003) Marks: 60 Date: - 05 /12 /-2019 Time: - 3 Hr. **Instructions:** - 1. First question is compulsory 2. Answer any FIVE out of the remaining. Q. No.1:-A. Write in pairs, Conventional vs. Green, building materials for the following building components: 5 Marks i. **Facades** ii. Window glazing Roofs iii. **Foundations** iv. v. Interior partition B. Match the following: 5 Marks i. **Embodied Energy** a. Cradle to grave b. Energy output/energy input% Life Cycle analysis ii. Green building c. Cool roofs iii. iv. Energy efficiency d. Eco-friendly, energy efficient and sustainable e. MJ/Kg Green technique v. 10 Marks Q. No. 2:- Write short notes on any two: Goals and scope in LCA process В. Ferrocement Eco boards C. Environmental Impact assessment Q. No.3:- Explain in detail any two green alternatives for construction technologies for framing and 10 Marks foundation of the building.

interventions at various stages of construction (pre, during and post)	? 10 Marks
Q. No. 5:- Give example and write in detail about two conventional materials us	sed in an alternative green
construction technique.	10 Marks
Q. No. 6:- Write in brief about Environmental Impact Assessment	10 Marks
Q. No. 7:- Explain the importance of embodied energy and Life cycle analysis of	
	10 Marks
======================================	
전문 경험 경험 전문 전문 시간 경험 전문 시간 경험	
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Winter End Semester Examination: Dec-2019

Branch: M. Arch (GENERAL) Subject:- URBAN DESIGN (MAR10100003) Date: - 05/12/2019		Sem:- I Marks: 60 Time: - 3 Hrs.
Instructions: - 1. Q. No. 1 is compulsor	ry	
2. Answer any FOUR or	ut of the remaining.	
Q. No.1:- (A) Match the columns.		8 Marks
1. Linear city	k a. Jaipur 💸 🗀 💸 🖔	
2. Grid City	b. New Delhi	
3. Ancient City	c. Timgad	
4. Roman City	d. Mumbai	
5. Greek City	e. Shrirangam	\$3\$^
6. Futuristic City	f. Bangalore	
7. Temple city	g. Chandigarh	
8. Garden City	h. Harappa i. Priene	
	j. Bhubaneswar	
(B) Fill in the blanks.		12 Marks
1. According to Kevin Lynch "Ima		
a)	c) , d)	& e)
The Association of Decimal Association	trafaraca dananda an falla	wing factors
2. Accordingly to Bently, the qualit	T	
	, u), e)	, 1 <i>)</i> & g <i>)</i>
Q. No. 2:- Explain with suitable example & no	eat Sketches any Two	10 Marks
1. Plaza as an urban space 2. Urban Texture		
3. Radial City		
Q. No. 3: Write Short notes on any Two		10 Marks
A. 110. 212. White Differ Holes on any 1 MO		IU IVIAI KS
1. Differentiate between Space & 1	Place	
2. Function as a determinant of U		
3. Cognitive mapping		
Q. No. 4:- Differentiate between 'Conservative	e Surgery' and 'Cosmetic S	urgery' as methods of Urba
Design intervention.		

2. No. 5:- What is the significance or oposed "shopping Mall" in a residence of the control of t	of surveys in design? Prepare a question dential area in a city	10 Marks mnaire for survey for 10 Marks
2. No. 6:- Elaborate on the imponvironment.	rtance of 'Imageability' as an integr	al component of the urba
	tion of Urban Design as a separate dis sciplines dealing with built environmen	scipline, explain the place o
	Paper End	

End Semester Winter Examination – Dec. 2019

Branch: M. Arch (ENV) Subject: - Sustainable Development & Planning (MAREA10100004) Date: - 07/12/2019	Sem.:- I Marks: 60 Time: - 3 Hrs.
Instructions: - 1. Q. No. I is compulsory	
2. Answer any FOUR out of the remaining.	
3. Illustrate your answers with neat sketches, diagram et	tc., wherever necessary.
Q. No.1:-Define and briefly explain the following: a) Local area planning b) Sustainable development c) Planned cities	20 Marks
d) Housing shortage e) Global Warming	
Q. No. 2:-Discuss any 3 issues of urban development with respect to the sce	nario in Indian cities. 10 Marks
Q. No. 3:- What is the importance of stakeholder participation in any plant the stages for stakeholder participation.	ning process ? Elaborate 10 Marks
Q. No. 4:- Explain the term 'walkability'. Discuss with the help of a case, al walkability at the neighbourhood level.	ll the factors that affect 10 Marks
Q. No. 5:- Elaborate on the town planning concepts in ancient India.	10 Marks
Q. No. 6:- Discuss the issues related to the housing scenario in India.	10 Marks
Q. No. 7:- Elaborate on the parameters that should be considered while des (streets with low to moderate traffic that give access to individual properties and neighbourhood. Paper End	
Taper End	



Winter Semester Examination – Dec. - 2019

Branch: M. Arch (General)

Sem.: - I

Subject: Advanced Studies & Research Methodologies (MAR10100006)

Marks: 60

Date: - 07/12/2019

Time: 3Hr.

Instructions to the Students

1. Each question carries 12 marks.

- 2. Attempt any five questions of the following.
- 3. Illustrate your answers with neat sketches, diagram etc., wherever necessary.
- 4. If some part or parameter is noticed to be missing, you may appropriately assume it and should mention it clearly
- Q.1 1. The height of the students in a classroom is

2X6=12

- a. Continuous data
- b. Categorical data
- c. Discrete data
- d. All of the above
- 2. The following graphical method can only be used for representing data for one variable:
 - a. Pie chart
 - b. Bar chart
 - c. Histogram
 - d. Box plot
- 3. Mode represents
 - a. Most repeated value
 - b. Least repeated value
 - c. The central value
 - d. The value between the maximum and the minimum
- 4. Median is a measure of
 - a. Dispersion
 - b. Skewness
 - c. Central tendency
 - d. Flatness of the data
- 5. Purpose of doing research is
 - a. To identify problem
 - b. To find the solution
 - c. Both a and b
 - d. None of these
- 6. Which method can be applicable for collecting Qualitative Data?
 - a. Artifacts (Visual)

	b. People	
	c. Media products d. All of these	
2.2	a. How does literature review help to identify a research problem?	12
	b. What are the steps in developing a research plan? Explain at least two of them in detail with examples.	
.3	Explain the various parts of writing a research report.	12
2.4	Write short notes on at least two methods of collecting data, for conducting research.	12
).5	The municipality corporation of Aurangabad, wishes to develop a low-cost housing township. In this connection, it wants to gather the opinion of the people regarding their requirements and expectations for design, architecture and facilities. Based on the opinions of the public, the budget for the township would be worked out. Write a short note on the design of questions for calleging the data and have the details.	12
	a short note on the design of questionnaire for collecting the data, and how the data would be analyzed.	
2.6	a. Explain the following terms: (i) mean, (ii) median, (iii) mode.	12
	b. Explain the following terms: (i) mean deviation, (ii) variance, (iii) standard	
	deviation.	
	그는 그는 그는 그림에 어려워 가는 사람들은 전혀 가는 사람들이 되었다. 그는 그는 그는 그는 그는 그는 그는 그를 가는 것이다.	