

Enrollment No.....



Faculty of Commerce / Engineering /
Management Studies

End Sem (Odd) Examination Dec-2019

CM3AE01/MS3AE01/EN3HS03

Environmental Science

Programme: B.Com.(Hons) / Branch/Specialisation:
BBA / B. Tech. Commerce/ Management /
DM / All

Duration: 3 Hrs.**Maximum Marks: 60**

Note: All questions are compulsory. Internal choices, if any, are indicated. Answers of Q.1 (MCQs) should be written in full instead of only a, b, c or d.

- Q.1 i. Environment, equity and economy are the necessary conditions for achieving- **1**
(a) Social development (b) Economical development
(c) Sustainable development (d) Ecological development
- ii. The Air Act was enacted in the year: **1**
(a) 1986 (b) 1974 (c) 1981 (d) 1972
- iii. Kyoto Protocol was the International Treaty on **1**
(a) SO₂ equivalent (b) CO₂ equivalent
(c) N₂ equivalent (d) None of these
- iv.can be used for Medical waste management. **1**
(a) Incineration (b) Open dump
(c) Composting (d) None of these
- v. Air pollutants mixing up with rain can causes **1**
(a) High acidity (b) Low acidity
(c) Neutral conditions (d) None of these
- vi. The method of rainwater harvesting which can be adopted by individual house owners is **1**
(a) Construction of recharge trenches
(b) On channel storage of water
(c) Creation of new water bodies
(d) Roof-top rainwater harvesting

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- vii. Which of these is an example of ex-situ conservation? **1**
 (a) National Park (b) Sacred groove
 (c) Wildlife Sanctuary (d) Seed bank
- viii. Which of the following factor diminishing as food chain proceeds? **1**
 (a) Pressure (b) Energy (c) Nutrition (d) Temperature
- ix. Honda Insight and Toyota Prius car models are powered by _____ **1**
 (a) Petrol and Diesel (b) Electricity
 (c) Petrol and electricity (d) Biofuel
- x. What refers to addressing the environmental impact of computer use in an environmentally responsible manner? **1**
 (a) Green computing (b) Fair use
 (c) Cybersquatting (d) Ethical computing
- Q.2 i. Why is it necessary to create environmental awareness? **3**
 ii. What is organic farming? Write advantages of Organic farming. **5**
 OR iii. Compare Environmental Auditing Vs Environmental Impact Assessment (EIA). **5**
- Q.3 i. How are solid wastes classified? **3**
 ii. What is global warming? Explain causes and effects of global warming. **5**
 OR iii. Write a detail note on Disaster management cycle. **5**
- Q.4 i. What are the major causes and consequences of deforestation? **3**
 ii. Discuss the causes, effects and control measures of soil pollution. **5**
 OR iii. Name and explain various sources of energy. Also compare these sources of energy. **5**
- Q.5 i. How does energy flow in an ecosystem? **3**
 ii. Define biodiversity. Briefly explain the consumptive use value and social value of biodiversity. **5**
 OR iii. Define ecosystem. Describe the various components of ecosystem and give suitable examples. **5**
- Q.6 Attempt any two:
 i. Discuss the criteria of GRIHA star rating system. **4**

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- ii. Give considerations in energy efficient designs of HVAC systems for Green Buildings. **4**
- iii. Give characteristics and examples of Green Business. **4**
- Q.7 Write case study on Bhopal Gas tragedy and Fukushima Daiichi disaster. **10**

Marking Scheme

CM3AE01/MS3AE01/EN3HS03 Environmental Science

Q.1	i.	Environment, equity and economy are the necessary conditions for achieving-		1
		(c) Sustainable development		
	ii.	The Air Act was enacted in the year:		1
		(c) 1981		
	iii.	Kyoto Protocol was the International Treaty on		1
		(b) CO ₂ equivalent		
	iv.can be used for Medical waste management.		1
		(a) Incineration		
	v.	Air pollutants mixing up with rain can causes		1
		(a) High acidity		
	vi.	The method of rainwater harvesting which can be adopted by individual house owners is		1
		(d) Roof-top rainwater harvesting		
	vii.	Which of these is an example of ex-situ conservation?		1
		(d) Seed bank		
	viii.	Which of the following factor diminishing as food chain proceeds?		1
		(b) Energy		
	ix.	Honda Insight and Toyota Prius car models are powered by _____		1
		(c) Petrol and electricity		
	x.	What refers to addressing the environmental impact of computer use in an environmentally responsible manner?		1
		(a) Green computing		
Q.2	i.	Necessity to create environmental awareness		3
	ii.	Organic farming	2 marks	5
		Advantages of Organic farming.		
		0.5 mark for each (0.5 mark * 6)	3 marks	
OR	iii.	Environmental Auditing Vs Environmental Impact Assessment		5
		1 mark for each comparison	(1 mark * 5)	
Q.3	i.	Solid wastes classification		3
	ii.	Global warming	1 mark	5
		Causes	2 marks	
		Effects of global warming	2 marks	

OR	iii.	Disaster management cycle.		5
Q.4	i.	Major causes	1.5 marks	3
		Consequences of deforestation	1.5 marks	
	ii.	Soil pollution.		5
		Causes	1 mark	
		Effects	2 marks	
		Control measures	2 marks	
OR	iii.	Name and explain various sources of energy	3 marks	5
		Comparison of these sources of energy	2 marks	
Q.5	i.	Energy flow in an ecosystem?		3
	ii.	Define biodiversity	1 mark	5
		Consumptive use value	2 marks	
		Social value of biodiversity	2 marks	
OR	iii.	Define ecosystem	1 mark	5
		Components of ecosystem	2 marks	
		Examples	2 marks	
Q.6		Attempt any two:		
	i.	Criteria of GRIHA star rating system.		4
	ii.	Considerations in energy efficient designs of HVAC systems		4
	iii.	Characteristics of Green Business	2 marks	4
		Examples of Green Business	2 marks	
Q.7		Bhopal Gas tragedy	5 marks	10
		Fukushima Daiichi disaster	5 marks	
