

Enrollment No.....



Faculty of Science

End Sem (Even) Examination May-2022

CA3AE02 Environmental Science

Programme: BCA,
BCA+MCA (Integrated)Branch/Specialisation: Computer
Application**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. Which of the following is an environmental benefit of sustainable agriculture? **1**
 (a) More fossil fuel use (b) Soil quality is maintained
 (c) Increase in erosion (d) Decreased biodiversity
- ii. Which of the following three R's are regarded as environment friendly? **1**
 (a) Reduce, Reuse, Recycle (b) Read, Register, Recall
 (c) Random, Reduce, Recall (d) Reduce, Rebuilt, Restrict
- iii. What is the best way of managing hazardous waste? **1**
 (a) Export it to another country
 (b) Import it and make money
 (c) Burn it away
 (d) Dispose it off in an environmentally sound manner
- iv. What does Ozone layer absorb? **1**
 (a) X- rays (b) Infrared rays (c) UV- rays (d) Gamma rays
- v. A non-renewable source of energy is- **1**
 (a) Wind (b) Water (c) Sun (d) Fossil fuels
- vi. To preserve the resources for future use, we have to- **1**
 (a) Look for more (b) Save them
 (c) Consume more of them (d) Use them more frequently
- vii. Physical and chemical components of an ecosystem constitute **1**
 (a) Biotic structure (b) Abiotic structure
 (c) Both (a) and (b) (d) None of these
- viii. Energy flow in an ecosystem is always: **1**
 (a) Unidirectional (b) Cyclic
 (c) Reversible (d) Multi-directional

P.T.O.

- ix. LEED deals with sustainable aspects of- **1**
 (a) Agriculture (b) Buildings
 (c) Chemical Industry (d) Motor Vehicles
- x. What refers to addressing the environmental impact of computer use in environmentally responsible manner? **1**
 (a) Fair use (b) Green computing
 (c) Ethical computing (d) Cybersquatting
- Q.2 i. Write about the multidisciplinary nature of environmental science. **4**
 ii. With diagrammatic presentation, discuss the principle of Sustainable Development. **6**
- OR iii. Define Organic farming. State its advantages and disadvantages. **6**
- Q.3 i. Write any four impacts of human population growth on environment. **4**
 ii. Define carbon footprint. Write the ways to reduce it. **6**
- OR iii. Explain disaster management with a suitable example. **6**
- Q.4 i. Define the following terms: **4**
 (a) Soil erosion (b) Salinization
 ii. Write the effects of over exploitation of surface and ground water. **6**
- OR iii. What is the scenario of renewable energy in India? What innovative alternative energy sources are used in everyday life? **6**
- Q.5 i. Write difference between food chain and food web. **4**
 ii. Discuss the effects of air pollution on humans, plants and animals. **6**
- OR iii. What is acid rain? Write its impact on human communities and agriculture. **6**
- Q.6 Attempt any two: **5**
 i. Discuss the criteria of GRIHA star rating system. **5**
 ii. State about Hybrid car technology. Also write its advantages and disadvantages. **5**
 iii. Explain the concept of Green Business with examples. **5**

Marking Scheme CA3AE02 Environmental Science

Q.1	i.	Which of the following is an environmental benefit of sustainable agriculture? (b) Soil quality is maintained		1
	ii.	Which of the following three R's are regarded as environment friendly? (a) Reduce, Reuse, Recycle		1
	iii.	What is the best way of managing hazardous waste? (d) Dispose it off in an environmentally sound manner		1
	iv.	What does Ozone layer absorb? (c) UV- rays		1
	v.	A non-renewable source of energy is- (d) Fossil fuels		1
	vi.	To preserve the resources for future use, we have to- (b) Save them		1
	vii.	Physical and chemical components of an ecosystem constitute (b) Abiotic structure		1
	viii.	Energy flow in an ecosystem is always: (a) Unidirectional		1
	ix.	LEED deals with sustainable aspects of- (b) Buildings		1
	x.	What refers to addressing the environmental impact of computer use in environmentally responsible manner? (b) Green computing		1
Q.2	i.	Multidisciplinary nature of environmental science.	4 Marks	4
	ii.	Diagrammatic presentation Principle of Sustainable Development.	2 Marks 4 Marks	6
	OR iii.	Organic farming Advantages disadvantages.	2 Marks 2 Marks 2 Marks	6
Q.3	i.	Impacts of human population growth on environment	4 Marks	4
	ii.	Carbon footprint Ways to reduce it.	2 Marks 4 Marks	6
	OR iii.	Disaster management with a suitable example.	3 Marks 3 Marks	6

Q.4	i.	(a) Soil erosion (b) Salinization	2 Marks 2 Marks	4
	ii.	Effects of over exploitation of surface and ground water	6 Marks	6
OR	iii.	Scenario of renewable energy in India Innovative alternative energy sources	3 Marks 3 Marks	6
Q.5	i.	Food chain and food web.	4 Marks	4
	ii.	Effects of air pollution on humans Plants Animals.	2 Marks 2 Marks 2 Marks	6
OR	iii.	Acid rain Impact on human communities and agriculture.	2 Marks 4 Marks	6
Q.6		Attempt any two:		
	i.	GRIHA star rating system.	2.5 Marks 2.5 Marks	5
	ii.	Hybrid car technology With its advantages and disadvantages.	2 Marks 3 Marks	5
	iii.	Concept of Green Business Examples.	2.5 Marks 2.5 Marks	5
