

Autonomous Institution Affiliated to Visvesvaraya Technological University, Belagavi Approved by AICTE, New Delhi, Accredited By NAAC, Bengaluru And NBA, New Delhi

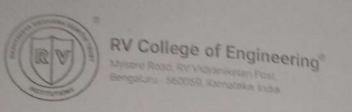
DEPARTMENT OF CIVIL ENGINEERING

1977	Environment and S	Sustainability	
Sem	III Semester	CIE – I	
Course Code	CV232AT	Duration (minutes)	90
Date	8 th Jan 2024	Maximum Marks	50

No.	Questions	M	BT	CO
X	a) Define the terms i) Environment ii) Ecology iii) Bio-Diversity	6	1	1
	b) Materials flow in eco system is cyclic and Energy flow is unidirectional,	4	2	1
/	justify.	10	1	2
2.	Classify different types of ecosystems. Explain in brief any two ecosystems with their	10	2	1
1	structure and composition	-	1	1
13	(a) Recall the concept of ecological succession and classify the same) 5	1	1
		5	2	1
/	Discuss the approaches of conserving the biodiversity in India	5	1	1
14.	a) Highlight the salient features of various hotspots of biodiversity in India	5	2	2
1	Briefly discuss the causes, effects and preventive measures of water pollution	10	2	2
8.	Briefly describe the various Environmental protection acts in India	10	1 4	

RT-Blooms Taxonomy, CO-Course Outcomes, M-Marks

		BI-Blooms 1ax	onomy,	CO-COU	ise oute				20020	- 4	T .	TI
	p	articulars	CO1	CO2	CO3	CO4	Ll	L2	L3	L4	L)	Lo
40000	1	articulais						7		0		
Marks Distribution	Test	Max Marks	25	25		-	16	34	-	-	-	
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Department of Civil Engineering

Academic year 2023-2024 (Odd Sem)

Date	5 - 2023-		1 50
	20-02-2024	Maximum Marks	50
Course Code	CV232AT	Duration	90 Min
Sem	III (Basket Course)		st)
	ENVIRONMENT AND	TYCTE A IN A BILLITY	

Sl. No.	Questions	Marks	BT	СО
1.	Enumerate the process of energy management and energy conservation with its objectives.	10	2	3
2.	Explain any 5 types of alternate energy sources with their advantages and disadvantages.	10	3	1
3.	Enumerate the objectives of sustainable urban projects.	10	2	3
4.	Highlight five important principles of sustainable development	10	3	3
5.	Briefly explain any 5 international protocols and agreements a. that address specific environmental issues	05	2	2
	b. Describe any 5 disadvantages of linear resource management systems.	05	3	2

Course outcomes:

BT-Blooms Taxonomy, CO-Course Outcomes, M-Marks

	Parti	iculars	CO1	CO2	CO3	CO4	Ll		L3	L4	L5	L6
Marks Distribution	Test	Max Marks	10	10	30	-	-	25	25	-	1	

Department of Civil Engineering

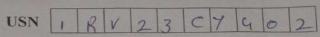
Date			50
Course Code 19-	03-2024	Maximum Marks	90 Min
Sem CV	232AT	Duration CIE – III (Tes	
Envi	ronmont	inability	

No.	Questions	M	BT	СО
) a	Enumerate the impacts of ozone layer depletion.	5	2	3
6	Explain the concept of 5R:	5	2	3
2. D	efine the following.	10	2	3
	EIA ii) Climate change iii) Carbon Credit Carbon Footprint v) Green Building			
/3 Ex	plain the principles of CSR.	10	2	4
4 En	umerate the ways to reduce carbon foot print.	10	3	3
//		5	2	2 3
g a	Briefly explain the concept of circular economy.			

Course outcomes:

BT-Blooms Taxonomy, CO-Course Outcomes, M-Marks

	Dorti	culars	COI	CO2	CO3	CO4	Ll	L2	L3	L4	L5	L6	1
Marks Distribution	Test	Max	-	-	35	15	-	40	10	-	-	-	1



RV COLLEGE OF ENGINEERING®

(An Autonomous Institution Affiliated to VTU) III Semester B. E. Examinations April/May-2024

Common to All

ENVIRONMENT AND SUSTAINABILITY

Time: 03 Hours

Maximum Marks: 100

Instructions to candidates:

1. Answer all questions from Part A. Part A questions should be answered in first three pages of the answer book only.

2. Answer FIVE full questions from Part B. In Part B question number 2 is compulsory. Answer any one full question from 3 and 4, 5 and 6, 7 and 8, 9 and 10.

	PART-A	M	BT	CO
1 1.1	Define the terms Biotic and Abiotic components.	02	1	1
1.2	Mention threats to bio-diversity.	02	1	1
1.3	List out the types of land pollution.	02	1	2
1.4	State the effects of noise pollution.	02	1	2
1.5	What are fossil fuels and why they are non-renewable?	02	1	2
1.6	What is biogas and mention its uses.	02	1	2
1.7	Highlight the significance of GDP in nation's economic			
	activity.	02	2	3
1.8	Highlight the distinction between Kyoto protocol and Paris	1		1
	agreement.	02	2	
1.9	Mention the principles of organic farming.	02	1	3
1.10	Enumerate the significance of EIA in developmental projects.	02	1	4

PART-B

2	а	acts promulgated in maia.	08	2	1
	b	Briefly discuss the causes, effects and preventive measures for soil and air pollution.	08	2	2
3	a	Explain the concept of energy management and conservation. Enumerate the concept of sustainable urbanization and the	08	2	2
	b	need for the same.	08	1,2	3
		OR			
1	a	Explain the concept of hydrogen energy with its uses, advantages and disadvantages. Explain the carbon cycle with sketch.	08	2 2	2 2
	b				
>	a b	Define environmental audit. Briefly describe the types of environmental audit. Enumerate the economic and social aspects of sustainability.			3 3
		OR		1	

Explain the concept of charity and corporate philanthropy.

Enumerate the environmental aspects of CSR.

OR

Explain how the changing emphasis of companies focusing on

2

1

2

08

08

08

4

4

4

Explain the principles of CSR.

9

10

a

b

a

b

CSR.