

Question Paper ID: 846830

Course Code: CV232TA



RV College of Engineering
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RV College of Engineering

(An Autonomous Institution Affiliated to VTU)

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III Semester B.E. Regular / Supplementary Examination February/March 2026

Environment and Sustainability

Time : 3 Hours

Maximum Marks : 100

Instructions to the students

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

Question No	Question	M	C	O	B	T
1.1	What are the causes and effects of soil pollution?	02	1	1		
1.2	How can water pollution be controlled?	02	2	2		
1.3	Explain the need for renewable energy sources.	02	1	1		
1.4	Explain geothermal energy plants.	02	2	2		
1.5	What is an environmental audit?	02	3	1		
1.6	Explain the concept of green technology with an example.	02	3	2		
1.7	Define carbon credit.	02	3	1		
1.8	Mention any two indicators of climate change.	02	3	2		
1.9	What is stakeholder management in CSR?	02	3	1		
1.10	What is the Global Reporting Initiative (GRI) in sustainability reporting?	02	4	2		

Part B

Question No	Question	M	C	O	B
2a	Explain the types of biodiversity and discuss the major threats to biodiversity with examples.	08	1	1	
2b	Write detailed notes on the causes, effects, and control measures of air and noise pollution.	08	1	2	

3a	Discuss hydrogen energy, its applications, and its benefits as a renewable energy source.	08 1 1
3b	Discuss Carbon sources and carbon sinks	08 1 1

OR

4a	Describe the role and applications of ocean energy resources and tidal energy conversion.	08 2 2
4b	Describe the carbon cycle, carbon sequestration, and their significance in energy management.	08 2 2
5a	Explain the need for system thinking and design of cyclical system	08 3 2
5b	Explain the challenges to concept of sustainability.	08 3 2

OR

6a	Explain the importance of sustainability practices in water, energy, food, land, forests, and waste management.	08 3 1
6b	Discuss linear vs. cyclical resource management systems and the role of the circular economy.	08 3 1
7a	Explain sustainability practices: Zero waste concept, 3R/6R concept and Circular Economy.	08 4 1
7b	Explain green buildings and green materials with reference to sustainable habitat.	08 4 1

OR

8a	Explain Environmental Impact Assessment (EIA) and sustainable habitat concepts.	08 4 2
8b	Describe Material Life Cycle Assessment (LCA) and its role in sustainability.	08 4 2
9a	Explain the importance of CSR in promoting environmental sustainability and social welfare.	08 3 1
9b	Describe the relationship between CSR, corporate governance, and sustainability.	08 3 1

OR

10a	Discuss how does sustainability help in managing investment risks?	08 4 2
10b	Explain the Dow Jones Sustainability Index?	08 4 2